

FORM  
2ARev  
04/01State 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:

400195198

## Oil and Gas Location Assessment

☐ New Location
 ☒ Amend Existing Location
 Location#: 312697

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:

**312697**

Expiration Date:

**09/24/2014**☒ 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: 100322

Name: NOBLE ENERGY INC

Address: 1625 BROADWAY STE 2200

City: DENVER State: CO Zip: 80202

## 3. Contact Information

Name: JEAN MUSE-REYNOLDS

Phone: (303) 228-4316

Fax: (303) 228-4286

email: jmuse@nobleenergyinc.com

## 4. Location Identification:

Name: SGV Number: 12H PAD

County: MESA

QuarterQuarter: SENE Section: 12 Township: 8S Range: 96W Meridian: 6 Ground Elevation: 6154

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: 2283 feet FNL, from North or South section line, and 1021 feet FEL, from East or West section line.

Latitude: 39.366133 Longitude: -108.051910 PDOP Reading: 0.8 Date of Measurement: 06/17/2011

Instrument Operator's Name: RON RENNKE

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

Special Purpose Pits: <input type="text" value="1"/>	Drilling Pits: <input type="text"/>	Wells: <input type="text" value="22"/>	Production Pits: <input type="text"/>	Dehydrator Units: <input type="text"/>
Condensate Tanks: <input type="text" value="11"/>	Water Tanks: <input type="text" value="2"/>	Separators: <input type="text" value="6"/>	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" value="1"/>	Oil Pipeline: <input type="text"/>	Water Pipeline: <input type="text" value="1"/>	Flare: <input type="text" value="1"/>
Gas Compressors: <input type="text"/>	VOC Combustor: <input type="text"/>	Oil Tanks: <input type="text" value="1"/>	Fuel Tanks: <input type="text"/>	

Other: \_\_\_\_\_

## 6. Construction:

Date planned to commence construction: 11/01/2011 Size of disturbed area during construction in acres: 16.05  
 Estimated date that interim reclamation will begin: 11/01/2012 Size of location after interim reclamation in acres: 2.00  
 Estimated post-construction ground elevation: 6154 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: CLOSED LOOP

## 7. Surface Owner:

Name: \_\_\_\_\_ Phone: \_\_\_\_\_  
 Address: \_\_\_\_\_ Fax: \_\_\_\_\_  
 Address: \_\_\_\_\_ Email: \_\_\_\_\_  
 City: \_\_\_\_\_ State: \_\_\_\_\_ Zip: \_\_\_\_\_ Date of Rule 306 surface owner consultation: \_\_\_\_\_  
 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: 20030009 ☐ 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: 1124, public road: 2305, above ground utilit: 1124  
   , railroad: 19642, property line: 945

## 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): NATIVE BRUSH/GRASS  
 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): NATIVE BRUSH/GRASS  
 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: 58. POTTS ILDEFONSO COMPLEX, 12-25 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: Western Wheatgrass, Needle and Thread, Big Sagebrush, Bluebunch Wheatgrass, Indian Ricegrass, Bottlebrush Squirrel Tail, Truckee Rabbit Brush

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: 558, water well: 924, depth to ground water: 112

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:

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

Signed: \_\_\_\_\_ Date: 08/16/2011 Email: jmuse@nobleenergyinc.com

Print Name: JEAN MUSE-REYNOLDS Title: REGULATORY COMPLIANCE

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. Nashin Director of COGCC Date: 9/25/2011

**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.**

**GENERAL SITE COAs:**

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.

Reserve pit, or any other pit used to contain/hold fluids, if constructed, must be lined or a closed loop system (as indicated by operator on the Form 2A) must be implemented during drilling.

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

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.

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. At the time of closure, the drill cuttings must also meet the applicable standards of table 910-1.

**Attachment Check List**

Att Doc Num	Name
2034009	CORRESPONDENCE
400195198	FORM 2A SUBMITTED
400195807	PROPOSED BMPs
400195812	MULTI-WELL PLAN
400195813	REFERENCE AREA PICTURES
400195814	LOCATION PICTURES
400195815	ACCESS ROAD MAP
400195817	REFERENCE AREA MAP
400195818	HYDROLOGY MAP
400195819	OTHER
400195822	LOCATION DRAWING
400195823	CONST. LAYOUT DRAWINGS
400195824	OTHER
400195831	LOCATION DRAWING
400195834	FORM 2A APPROVED
400196802	NRCS MAP UNIT DESC
400196830	OIL & GAS LEASE
400197052	NRCS MAP UNIT DESC

Total Attach: 18 Files

### General Comments

<u>User Group</u>	<u>Comment</u>	<u>Comment Date</u>
Permit	NO PUBLIC OR DOW COMMENTS. COMPREHENSIVE FINAL REVIEW STATUS-PASSED.	9/23/2011 8:03:07 AM
Permit	WO info from oper. to pass 2's. This is ready to approve.	9/16/2011 4:07:58 PM
OGLA	Per CPW, location not in SWH, therefore no consultation required. Unchecked SWH box and waived CDOW task.	9/14/2011 11:45:46 AM
OGLA	Initiated/Completed OGLA Form 2A review on 08-29-11 by Dave Kubeczko; requested acknowledgement of fluid containment, spill/release BMPs, lined pits/closed loop, flowback to tanks, and cuttings low moisture content COAs from operator on 08-29-11; received acknowledgement of COAs from operator on 09-13-11; no CDOW; passed OGLA Form 2A review on 09-16-11 by Dave Kubeczko; fluid containment, spill/release BMPs, lined pits/closed loop, flowback to tanks, and cuttings low moisture content COAs.	8/29/2011 1:19:23 PM
Permit	Returned to draft. Missing plugging bond ID. Surface owner should also be mineral owner and committed to O&G lease. Missing BMP's. Missing NRCS attachment.	8/16/2011 1:39:47 PM

Total: 5 comment(s)

### BMP

<u>Type</u>	<u>Comment</u>
Wildlife	Bird protection practices in accordance with the Migratory Bird Act.
Planning	Traffic minimization practices whenever possible in order to reduce dust, noise, congestion, road maintenance. Noise minimization. Use of multi-well pad sites for the purpose of minimizing areas of disturbance, traffic, and environmental impact. Proper reclamation and reseeding practices in accordance with COGCC rules, landowner requirements, and BLM stipulations as applicable.
Material Handling and Spill Prevention	Spill Prevention Control and Countermeasure (SPCC) Plans in accordance with 40 CFR, Part 112. Secondary containment for oil and produced water vessels in accordance with COGCC rules.
Storm Water/Erosion Control	Stormwater management practices during construction and interim reclamation phases in accordance with CDPHE regulations. Stormwater management practices in accordance with COGCC rules throughout the operating life of the locations.
Drilling/Completion Operations	Spill reporting and clean-up per COGCC guidelines, EPA regulations, CDPEH regulations and Noble Energy, Inc. guidelines.
General Housekeeping	Waste minimization practices including re-use and recycling when practical. Waste management (handling and disposal) practices in accordance with COGCC rules and RCRA guidelines as applicable. Good housekeeping practices relative to overall site condition.
Interim Reclamation	Use of portable toilets whenever longterm activities are occurring on the location site.

Total: 7 comment(s)