

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:

400457067

Date Received:

07/26/2013

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:

**434756**

Expiration Date:

**10/16/2016**

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: 100322  
 Name: NOBLE ENERGY INC  
 Address: 1625 BROADWAY STE 2200  
 City: DENVER State: CO Zip: 80202

3. Contact Information

Name: SUSAN MILLER  
 Phone: (303) 228-4246  
 Fax: (303) 228-4286  
 email: smiller@nobleenergyinc.com

4. Location Identification:

Name: CHANDLER STATE Number: D15-72-1HN  
 County: WELD  
 Quarter: NENE Section: 15 Township: 3N Range: 64W Meridian: 6 Ground Elevation: 4786

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: 300 feet FNL, from North or South section line, and 350 feet FEL, from East or West section line.  
 Latitude: 40.231830 Longitude: -104.529090 PDOP Reading: 1.4 Date of Measurement: 05/29/2013  
 Instrument Operator's Name: Bradley Laman

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="3"/>      | Production Pits: <input type="checkbox"/>  | Dehydrator Units: <input type="checkbox"/> |
| Condensate Tanks: <input type="checkbox"/>      | Water Tanks: <input type="text" value="3"/>   | Separators: <input type="text" value="6"/> | Electric Motors: <input type="checkbox"/>  | Multi-Well Pits: <input type="checkbox"/>  |
| Gas or Diesel Motors: <input type="checkbox"/>  | Cavity Pumps: <input type="checkbox"/>        | LACT Unit: <input type="checkbox"/>        | Pump Jacks: <input type="text" value="3"/> | Pigging Station: <input type="checkbox"/>  |
| Electric Generators: <input type="checkbox"/>   | Gas Pipeline: <input type="text" value="1"/>  | Oil Pipeline: <input type="checkbox"/>     | Water Pipeline: <input type="checkbox"/>   | Flare: <input type="checkbox"/>            |
| Gas Compressors: <input type="text" value="3"/> | VOC Combustor: <input type="text" value="5"/> | Oil Tanks: <input type="text" value="9"/>  | Fuel Tanks: <input type="checkbox"/>       |  |

Other: 2 K.O. tanks, 3 blowcase, 1 VRT, 1 compressor suction scrubber, 6 water vaults, 1 wellhead compressor, 6 three-phase flowlines, 3 EFM, 3 sand catchers. Production facility to be situated on pad and dedicated to well being permitted.

**6. Construction:**

Date planned to commence construction: 08/24/2013 Size of disturbed area during construction in acres: 13.00  
 Estimated date that interim reclamation will begin: 11/24/2013 Size of location after interim reclamation in acres: 5.00  
 Estimated post-construction ground elevation: 4786 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: 06/21/2013  
 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 20030012

**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: 5280, public road: 5280, above ground utility: 5280,  
 railroad: 5280, property line: 300

**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: 49: Osgood sand, 0-3% slopes  
NRCS Map Unit Name: 70: Valent sand, 3-9% 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: 05/29/2013  
List individual species:

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: 8824, water well: 3382, depth to ground water: 86  
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:**

Nearest building, public road, above ground utility, railroad and surface water located over 1 mile from the proposed location. Nearest water well permit no. 11048 (stock) located 3382' SW of location. Landowner consented to relocate electric fence located within disturbance area. Access road will follow a designated route per the Landowner. Nearest surface water is Box Elder Creek located 8824' NW of location. Production facility located on pad will service the following proposed wells: Chandler State D15-72-1HN (REF), Chandler State D15-73-1HN, Chandler State D15-74-1HN. Reference area located immediately adjacent to and west of location on undisturbed land as shown on attached photo and map.

I hereby certify that the statements made in this form are, to the best of my knowledge, true, correct and complete.  
Signed: \_\_\_\_\_ Date: 07/26/2013 Email: smiller@nobleenergyinc.com  
Print Name: SUSAN MILLER Title: Regulatory Analyst III

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: 10/17/2013

**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.

**Description**

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**Attachment Check List**

| <b><u>Att Doc Num</u></b> | <b><u>Name</u></b>      |
|---------------------------|-------------------------|
| 400457067                 | FORM 2A SUBMITTED       |
| 400457460                 | ACCESS ROAD MAP         |
| 400457462                 | HYDROLOGY MAP           |
| 400457464                 | LOCATION DRAWING        |
| 400457465                 | LOCATION PICTURES       |
| 400457468                 | MULTI-WELL PLAN         |
| 400457470                 | WASTE MANAGEMENT PLAN   |
| 400457474                 | REFERENCE AREA MAP      |
| 400457475                 | REFERENCE AREA PICTURES |
| 400457477                 | NRCS MAP UNIT DESC      |

Total Attach: 10 Files

**General Comments**

| <b><u>User Group</u></b> | <b><u>Comment</u></b>                               | <b><u>Comment Date</u></b> |
|--------------------------|---|----------------------------|
| Permit                   | No LGD or public comments.<br>Final Review--passed. | 10/15/2013<br>7:13:45 AM   |
| OGLA                     | Reviewed 8/21/2013.                                 | 8/21/2013<br>3:51:16 PM    |

Total: 2 comment(s)

## Best Management Practices

| No | BMP/COA Type                           | Description   |
|----|--|---|
| 1  | General Housekeeping                   | General housekeeping will consist of neat and orderly storage of materials and fluids. Wastes will be temporarily stored in sealed containers and regularly collected and disposed of at offsite, suitable facilities. If spills occur, prompt cleanup is required to minimize any commingling of waste materials with stormwater runoff. Routine maintenance will be limited to fueling and lubrication of equipment. Drip pans will be used during routine fueling and maintenance to contain spills or leaks. Any waste product from maintenance will be containerized and transported offsite for disposal or recycling. There will be no major equipment overhauls conducted onsite. Equipment will be transported offsite for major overhauls. Cleanup of trash and discarded materials will be conducted at the end of each work day. Cleanup will consist of patrolling the roadway, access areas, and other work areas to pick up trash, scrap debris, other discarded materials, and any contaminated soil. These materials will be disposed of properly. |
| 2  | Storm Water/Erosion Control            | Stormwater management plans (SWMP) are in place to address construction, drilling and operations associated with Oil & Gas development throughout the state of Colorado in accordance with Colorado Department of Public Health and Environment (CDPHE) and General Permit No. COR-038637. BMP's will be constructed around the perimeter of the site prior to, or at the beginning of construction. BMP's used will vary according to the location and will remain in place until the pad reaches final reclamation.   |
| 3  | Material Handling and Spill Prevention | Spill Prevention Control and Countermeasures (SPCC) plans are in place to address any possible spill associated with Oil & Gas operations throughout the state of Colorado in accordance with CFR 112.  |

Total: 3 comment(s)