

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:

400407063

Date Received:

07/18/2013

Oil and Gas Location Assessment

New Location

Amend Existing Location

Location#: 423305

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:

**423305**

Expiration Date:

**10/02/2016**

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: MARI CLARK  
 Phone: (303) 228-4413  
 Fax: (303) 228-4286  
 email: mclark@nobleenergyinc.com

4. Location Identification:

Name: Nelson K Number: 27-65-1HN  
 County: WELD  
 Quarter: NWSW Section: 27 Township: 4N Range: 66W Meridian: 6 Ground Elevation: 4752

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: 1673 feet FSL, from North or South section line, and 300 feet FWL, from East or West section line.  
 Latitude: 40.279950 Longitude: -104.771920 PDOP Reading: 2.0 Date of Measurement: 06/21/2012  
 Instrument Operator's Name: Robert Daley

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="4"/>	Separators: <input type="text" value="16"/>	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="1"/>	VOC Combustor: <input type="text" value="3"/>	Oil Tanks: <input type="text" value="16"/>	Fuel Tanks: <input type="checkbox"/>	

Other: 7 Flowlines, 6 Water Vaults, 6 EFM

6. Construction:

Date planned to commence construction: 11/01/2013 Size of disturbed area during construction in acres: 12.00  
Estimated date that interim reclamation will begin: 03/15/2014 Size of location after interim reclamation in acres: 3.00  
Estimated post-construction ground elevation: 4752 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: 03/16/2012  
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: 415, public road: 291, above ground utility: 274,  
railroad: 1330, 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 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: 29- Julesburg sandy loam, 0 to 1 percent slopes

NRCS Map Unit Name: 30- Julesburg sandy loam, 1 to 3 percent 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: \_\_\_\_\_  
\_\_\_\_\_

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: 280, water well: 494, depth to ground water: 22

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:

PLEASE SEE ATTACHMENT "OTHER" FOR ADDITIONAL COMMENTS. NEAREST WATER WELL DEPTH TO GROUND WATER WAS TAKEN FROM PERMIT #20025-R LOCATED APPROX. 494' SE OF SITE. 3 WELL PAD INCLUDING PROPOSED NELSON K27-65-1HN, NELSON K27-65HC & EXISTING NELSON K27-63HN. SOUND CONTROL WILL BE UTILIZED FOR BUILDING TO THE SOUTH. PAD WILL BE USED TO STAGE THE FRAC FOR BOTH THE PROPOSED NELSONS AND HEITMAN PADS TO LIMIT SURFACE DISTURBANCE. OVERHEAD UTILITY LINE WILL NOT BE DISTURBED. DRILLING RIG WILL NOT GO UNDER THE LINE & THE ONLY USE FOR THIS AREA WILL BE FOR TANK STORAGE. THERE IS AN IRRIGATION POND NORTH OF THE DISTURBANCE AREA. THIS POND WILL NOT BE DISTURBED AND IS DRY FOR A PORTION OF THE YEAR. PRODUCTION FACILITY WILL BE LOCATED TO THE NORTH OF THE PROPOSED WELL. PRODUCTION FACILITY WILL SERVICE EXISTING NELSON K27-63HN, UPRC27-12F, 13F AND PROPOSED NELSON K27-65HC, 65-1HN, HEITMAN FEDERAL K27-78-1HN AND HEITMAN K27-62-1HNM. CROP IS WHEAT. EXISTING EQUIPMENT: 1 OIL WELL, 3 3 PHASE FLOWLINES, 4 OIL TANKS, 1 GAS PIPELINE, 4 SEPARATORS, 2 EFM, 1 VOC, 2 H2O VAULTS. ADDING EQUIPMENT: 1 GAS COMPRESSOR, 2 WELLS, 12 SEPARATORS, 12 OIL TANKS, 2 VOC, 4 H2O VAULTS, 4 3 PHASE FLOWLINES, 4 EFM, , 4 H2O TANKS, 3 PUMP JACKS = TOTALS IN FACILITIES & CONSTRUCTION #1. EXISTING ACCESS WILL BE USED FOR LOCATION.

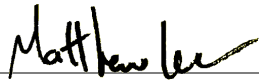
I hereby certify that the statements made in this form are, to the best of my knowledge, true, correct and complete.

Signed: \_\_\_\_\_ Date: 07/18/2013 Email: mclark@nobleenergyinc.com

Print Name: Mari Clark 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: 10/3/2013

**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**

**Attachment Check List**

<b>Att Doc Num</b>	<b>Name</b>
2086418	HYDROLOGY MAP
400448935	LOCATION PICTURES
400448937	LOCATION DRAWING
400448940	ACCESS ROAD MAP
400448941	MULTI-WELL PLAN
400448942	NRCS MAP UNIT DESC
400448943	WASTE MANAGEMENT PLAN

Total Attach: 7 Files

**General Comments**

<b>User Group</b>	<b>Comment</b>	<b>Comment Date</b>
Permit	Final review complete.	9/30/2013 3:49:16 PM
OGLA	Uploaded new Hydrology Map.	9/30/2013 11:18:56 AM
OGLA	Requesting new Hydrology Map.	9/3/2013 10:08:32 AM
Permit	Ready to pass pending public comment 8/12/13.	7/24/2013 10:47:02 AM
Permit	Passed completeness.	7/22/2013 1:19:56 PM
Permit	Received multi-well plat with the two proposed BHL.	7/22/2013 1:19:11 PM
Permit	Returned to draft. Requested updated multi-well plan.	7/19/2013 10:52:50 AM

Total: 7 comment(s)

## Best Management Practices

No	BMP/COA Type	Description
1	General Housekeeping	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 pickup 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 and Environment (CDPHE) 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)