

FORM  
2A

Rev  
08/13

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:

401152437

Date Received:

12/07/2016

Oil and Gas Location Assessment

New Location     Refile     Amend Existing Location    Location#: 448903

This Oil and Gas Location Assessment is to be submitted to the COGCC for approval prior to any ground disturbance activity associated with oil and gas operations. Approval of this Oil and Gas Location 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. Please see the COGCC website at <http://cogcc.state.co.us/> for all accompanying information pertinent this Oil and Gas Location Assessment.

Location ID:

**448903**

Expiration Date:

**01/12/2020**

This location assessment is included as part of a permit application.

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.

Operator

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

Contact Information

Name: Justin Garrett  
 Phone: (303) 228 4449  
 Fax: ( )  
 email: Justin.Garrett@nblenergy.com

RECLAMATION FINANCIAL ASSURANCE

- Plugging and Abandonment Bond Surety ID: 20030009     Gas Facility Surety ID: \_\_\_\_\_
- Waste Management Surety ID: \_\_\_\_\_

LOCATION IDENTIFICATION

Name: Moore UPRC    Number: H13-2 Tank  
 County: WELD  
 Quarter: NWNE    Section: 13    Township: 3N    Range: 65W    Meridian: 6    Ground Elevation: 4854

Define a single point as a location reference for the facility location. When the location is to be used as a well site then the point shall be a well location.

Footage at surface: 786 feet FNL from North or South section line  
 2470 feet FEL from East or West section line

Latitude: 40.230320    Longitude: -104.611450

PDOP Reading: 1.5    Date of Measurement: 10/25/2016

Instrument Operator's Name: Charles Scott

## RELATED REMOTE LOCATIONS

(Enter as many Related Locations as necessary. Enter the Form 2A document # only if there is no established COGCC Location ID#)

**This proposed Oil and Gas Location is:**

**LOCATION ID #** **FORM 2A DOC #**

Production Facilities Location serves Well(s)

329515

## FACILITIES

Indicate the number of each type of oil and gas facility planned on location

Wells	Oil Tanks*	1	Condensate Tanks*	Water Tanks*	Buried Produced Water Vaults*	1	
Drilling Pits	Production Pits*		Special Purpose Pits	Multi-Well Pits*	Modular Large Volume Tanks		
Pump Jacks	Separators*	1	Injection Pumps*	Cavity Pumps*	Gas Compressors*		
Gas or Diesel Motors*	Electric Motors		Electric Generators*	Fuel Tanks*	LACT Unit*		
Dehydrator Units*	Vapor Recovery Unit*		VOC Combustor*	2	Flare*	Pigging Station*	

## OTHER FACILITIES\*

**Other Facility Type**

**Number**

\*Those facilities indicated by an asterisk (\*) shall be used to determine the distance from the Production Facility to the nearest cultural feature on the Cultural Setbacks Tab.

Per Rule 303.b.(3)C, description of all oil, gas, and/or water pipelines:

One (1) 3-8" Flowline, One (1) 3-8" Gas Line - No proposed pipeline to be added to this site

## CONSTRUCTION

Date planned to commence construction: 02/17/2017 Size of disturbed area during construction in acres: 0.50  
Estimated date that interim reclamation will begin: 02/22/2017 Size of location after interim reclamation in acres: 0.50  
Estimated post-construction ground elevation: 4858

## DRILLING PROGRAM

Will a closed loop system be used for drilling fluids: \_\_\_\_\_

Is H<sub>2</sub>S anticipated? \_\_\_\_\_

Will salt sections be encountered during drilling: \_\_\_\_\_

Will salt based mud (>15,000 ppm Cl) be used? \_\_\_\_\_

Will oil based drilling fluids be used? \_\_\_\_\_

## DRILLING WASTE MANAGEMENT PROGRAM

Drilling Fluids Disposal: \_\_\_\_\_ Drilling Fluids Disposal Method: \_\_\_\_\_

Cutting Disposal: \_\_\_\_\_ Cuttings Disposal Method: \_\_\_\_\_

Other Disposal Description:

Beneficial reuse or land application plan submitted? \_\_\_\_\_

Reuse Facility ID: \_\_\_\_\_ or Document Number: \_\_\_\_\_

Centralized E&P Waste Management Facility ID, if applicable: \_\_\_\_\_

## SURFACE & MINERALS & RIGHT TO CONSTRUCT

Name: Herbert & Linda Nelson

Phone: \_\_\_\_\_

Address: 15950 CR 14.5

Fax: \_\_\_\_\_

Address: \_\_\_\_\_

Email: \_\_\_\_\_

City: LaSalle State: CO Zip: 80645

Surface Owner:  Fee  State  Federal  Indian

Check all that apply. The Surface Owner:  is the mineral owner  
 is committed to an oil and Gas Lease  
 has signed the Oil and Gas Lease  
 is the applicant

The Mineral Owner beneath this Oil and Gas Location is:  Fee  State  Federal  Indian

The Minerals beneath this Oil and Gas Location will be developed from or produced to this Oil and Gas Location: Yes

The right to construct this Oil and Gas Location is granted by: oil and gas lease

Surface damage assurance if no agreement is in place: \_\_\_\_\_ Surface Surety ID: \_\_\_\_\_

Date of Rule 306 surface owner consultation 09/21/2016

**CURRENT AND FUTURE LAND USE**

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

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

## CULTURAL DISTANCE INFORMATION

Provide the distance to the nearest cultural feature as measured from Wells or Production Facilities onsite.

	From WELL	From PRODUCTION FACILITY
Building:	_____ Feet	526 Feet
Building Unit:	_____ Feet	542 Feet
High Occupancy Building Unit:	_____ Feet	5280 Feet
Designated Outside Activity Area:	_____ Feet	5280 Feet
Public Road:	_____ Feet	81 Feet
Above Ground Utility:	_____ Feet	21 Feet
Railroad:	_____ Feet	52280 Feet
Property Line:	_____ Feet	154 Feet

### INSTRUCTIONS:

- All measurements shall be provided from center of nearest Well or edge of nearest Production Facility to nearest of each cultural feature as described in Rule 303.b.(3)A.
- Enter 5280 for distance greater than 1 mile.
- Building - nearest building of any type. If nearest Building is a Building Unit, enter same distance for both.
- Building Unit, High Occupancy Building Unit, and Designated Outside Activity Area - as defined in 100-Series Rules.
- For measurement purposes only, Production Facilities should only include those items with an asterisk(\*) on the Facilities Tab.

## DESIGNATED SETBACK LOCATION INFORMATION

Check all that apply. This location is within a:

- Buffer Zone
- Exception Zone
- Urban Mitigation Area

- Buffer Zone - as described in Rule 604.a.(2), within 1,000' of a Building Unit.
- Exception Zone - as described in Rule 604.a.(1), within 500' of a Building Unit.
- Urban Mitigation Area - as defined in 100-Series Rules.
- Large UMA Facility - as defined in 100-Series Rules.

Pre-application Notifications (required if location is within 1,000 feet of a building unit):

Date of Rule 305.a.(1) Urban Mitigation Area Notification to Local Government: \_\_\_\_\_

Date of Rule 305.a.(2) Buffer Zone Notification to Building Unit Owners: 10/26/2016

## FOR MULTI-WELL PADS AND PRODUCTION FACILITIES WITHIN DESIGNATED SETBACK LOCATIONS ONLY:

- Check this box if this Oil and Gas Location has or will have Production Facilities that serve multiple wells (on or offsite) and the Production Facilities are proposed to be located less than 1,000 feet from a Building Unit. *(Pursuant to Rule 604.c.(2)E.i., the operator must evaluate alternative locations for the Production Facilities that are farther from the Building Unit, and determine whether those alternative locations were technically feasible and economically practicable for the same proposed development.)*
- By checking this box, I certify that no alternative placements for the Production Facilities, farther from the nearest Building Unit, were available based on the analysis conducted pursuant to Rule 604.c.(2)E.i.

In the space below, explain rationale for siting the multi-well Production Facility(ies) that supports your Rule 604.c.(2)E.i determination. Attach documentation that supports your determination to this Form 2A.

## SOIL

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.org/> 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: 44: Olney loamy sand, 1 to 3 percent slopes

NRCS Map Unit Name: \_\_\_\_\_

NRCS Map Unit Name: \_\_\_\_\_

**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: 09/21/2016

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):

**WATER RESOURCES**

Is this a sensitive area:  No  Yes

Distance to nearest

downgradient surface water feature: 1260 Feet

water well: 480 Feet

Estimated depth to ground water at Oil and Gas Location 18 Feet

Basis for depth to groundwater and sensitive area determination:

This location is considered a sensitive area, based on depth of groundwater (SWL 18'), domestic water wells are within 660' of location, and there are occupied buildings within 1,000' of location.

Is the location in a riparian area:  No  Yes

Was an Army Corps of Engineers Section 404 permit filed  No  Yes If yes attach permit.

Is the location within a Rule 317B Surface Water Supply Area buffer No 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:

Is the Location within a Floodplain?  No  Yes Floodplain Data Sources Reviewed (check all that apply)

Federal (FEMA)

State

County

Local

Other

**GROUNDWATER BASELINE SAMPLING AND MONITORING AND WATER WELL SAMPLING**

Water well sampling required per Rule 318A

**WILDLIFE**

This location is included in a Wildlife Mitigation Plan

This location was subject to a pre-consultation meeting with CPW held on \_\_\_\_\_

**DESIGNATED SETBACK LOCATION EXCEPTIONS**

Check all that apply:

- Rule 604.a.(1)A. Exception Zone (within 500' of a Building Unit) and is in an Urban Mitigation Area
- Rule 604.b.(1)A. Exception Location (existing or approved Oil & Gas Location now within a Designated Setback as a result of Rule 604.a.)
- Rule 604.b.(1)B. Exception Location (existing or approved Oil & Gas Location is within a Designated Setback due to Building Unit construction after Location approval)
- Rule 604.b.(2) Exception Location (SUA or site-specific development plan executed on or before August 1, 2013)
- Rule 604.b.(3) Exception Location (Building Units constructed after August 1, 2013 within setback per an SUA or site-specific development plan)

**RULE 502.b VARIANCE REQUEST**

Rule 502.b. Variance Request from COGCC Rule or Spacing Order Number \_\_\_\_\_

ALL exceptions and variances require attached Request Letter(s). Refer to applicable rule for additional required attachments (e.g. waivers, certifications, SUAs).

**OPERATOR COMMENTS AND SUBMITTAL**

Comments 

Noble will be rerouting existing fence and increasing the disturbance to the east to accommodate for the new VOC combustor. The property line will be greater than 31' from the nearest piece of equipment. 1 Associated well: MOORE UPRC H 13-2 (API# 05-123-17460, Loc ID #329515) located approx. 381' east of location. Existing Equipment includes: One (1) Separator, One (1) Water Vault, One (1) Oil Tank, One (1) VOC Combustor. Total Equipment includes: One (1) Separator, One (1) Water Vault, One (1) Oil Tank, Two (2) VOC Combustors.
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I hereby certify that the statements made in this form are, to the best of my knowledge, true, correct and complete.  
Signed: \_\_\_\_\_ Date: 12/07/2016 Email: RegulatoryNotification@nblenergy.com

Print Name: Justin Garrett Title: Regulatory Analyst

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: Matthew Lee Director of COGCC Date: 1/13/2017

**Conditions Of Approval**

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.

<u>COA Type</u>	<u>Description</u>

## Best Management Practices

<b>No</b>	<b>BMP/COA Type</b>	<b>Description</b>
1	Planning	Planning: Lighting will not be used on location during construction activities.
2	Planning	Planning: A VOC will be added to the existing production facility location, with an increase of disturbance of approximately 2,500 square feet east of the existing production tanks.
3	Traffic control	Traffic Control: Construction operations – Based on construction of adding one VOC and increasing disturbance area by approximately 2,500 square/feet, the need for dust suppression is unlikely. If dust suppression is needed, it could include a combination of water, magnesium chloride, or calcium chloride. Limited traffic speed will be used for dust mitigation.
4	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.
5	General Housekeeping	General Housekeeping: All surface trash, debris, scrap or discarded material connected with the operations of the property shall be removed from the premises or disposed of in a legal manner.
6	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) 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 and maintained until the pad reaches final reclamation.
7	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.
8	Construction	Construction: Fencing is not planned with this construction activity.
9	Construction	Construction: At the time of construction, all leasehold roads shall be constructed to accommodate local emergency vehicle access requirements, and shall be maintained in a reasonable condition.
10	Noise mitigation	Noise Mitigation: Construction operations – Construction activities will take place during the day, and there is no foreseen noise impacts associated with the construction and equipment being installed.

Total: 10 comment(s)

## Attachment Check List

<u>Att Doc Num</u>	<u>Name</u>
2316036	RULE 306.E. CERTIFICATION
401152437	FORM 2A SUBMITTED
401162255	LOCATION DRAWING
401162256	NRCS MAP UNIT DESC
401162257	ACCESS ROAD MAP
401162260	HYDROLOGY MAP
401162263	LOCATION PICTURES
401162264	REFERENCE AREA MAP
401162265	REFERENCE AREA PICTURES
401162267	FACILITY LAYOUT DRAWING
401162269	OTHER
401166900	RULE 305A CERTIFICATION OF COMPLIANCE

Total Attach: 12 Files

### General Comments

<u>User Group</u>	<u>Comment</u>	<u>Comment Date</u>
Permit	Final Review Completed.	01/13/2017
OGLA	OGLA supervisor sent back to active OGLA task - created Location ID 448903 and changed to amended 2A for 604 exception request. Pass OGLA task.	01/09/2017
OGLA	Noble is amending this location by expanding the disturbed area and adding a VRU for emissions controls. Based on Google Earth and COGCC GIS aerial photos, the building units to the northeast (approximately 570 feet) and south (approximately 700 feet) were present in 1999 as well as the oil and gas well and tank battery. The approval of this Form 2A does not exempt the Operator from the 600-series rules applicable or other non-compliance at the time of construction of the tank battery. The Operator sent out notifications and no public comments were made to the Operator, LGD, or COGCC. The LGD commented on County requirements for the location. OGLA review complete and task passed.	01/06/2017
OGLA	Updated distance to building unit to match location drawing per email correspondence with Operator (changed from 524' to 542'). waiting for public comment to end for 306e certification letter.	01/03/2017
OGLA	This is an existing location prior to the 604 setback rules and Form 2A. New location but pre-existing. Adding new VRU and expanding location 2,500 sqft to accomidate new equipment. Operator requested Rule 604.b.(1)A. Exception Location request. Originally labeled Variance as attachment, changed to Other.	12/30/2016
OGLA	OGLA review - Cultural distance from production equipment to BU is 524' and on the location drawing is 542' - email Operator to confirm distance and need 306e cert letter post comment period.	12/29/2016
LGD	No comment.Minor change to location to add air pollution control device.This activity is similar to a workover or remediation and shouldnt warrant a permitting/comment process other than surface owner notification/agreement.Per Weld County Code, modifications to existing oil and gas locations to meet the terms of compliance orders are considered a Use by Right and no Weld Oil and Gas Location Assessment (WOGLA) is required.A building permit is required for the production facilities (tank battery, separators, pump jacks, compressors, generators, etc.) from the Department of Planning Services.Troy Swain, Weld Oil and Gas Liaison and LGD (970) 400-3579.	12/22/2016
Permit	Verified that 305.a letter is attached. Passed completeness.	12/14/2016
OGLA	Buffer Zone completeness review - contacted operator and pushed to Draft for 305.a certification letter and Exception box should not be checked. No other completeness issues were identified.	12/14/2016
Permit	Referred to OGLA Supervisor for Buffer and Exception Zone Review.	12/09/2016

Total: 10 comment(s)