

**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:

400513113

Date Received:

Oil and Gas Location Assessment☒ New Location ☐ Refile ☐ Amend Existing Location Location#: _____

Submit signed original form. 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:

Expiration Date:

☐ 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.

OperatorOperator Number: 100322Name: NOBLE ENERGY INCAddress: 1625 BROADWAY STE 2200City: DENVER State: CO Zip: 80202**Contact Information**Name: Mari ClarkPhone: (303) 228-4413Fax: (303) 228-4286email: mclark@nobleenergyinc.com**RECLAMATION FINANCIAL ASSURANCE**

- ☒ Plugging and Abandonment Bond Surety ID: 20030009 ☐ Gas Facility Surety ID: _____
- ☐ Waste Management Surety ID: _____

LOCATION IDENTIFICATIONName: RELIANCENumber: E23-66-1HN WSCounty: WELDQuarter: NWSE Section: 23 Township: 6N Range: 65W Meridian: 6 Ground Elevation: 4699

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: 2142 feet FSL from North or South section line1813 feet FEL from East or West section lineLatitude: 40.470080 Longitude: -104.627360PDOP Reading: 1.6 Date of Measurement: 10/15/2013Instrument Operator's Name: Andy Maggiore

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 #

FACILITIES

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

| | | | | |
|----------------------------|---------------------------|----------------------------|-----------------------|--|
| Wells _____ | Oil Tanks _____ | Condensate Tanks _____ | Water Tanks _____ | Buried Produced Water Vaults _____ |
| Drilling Pits _____ | Production Pits _____ | Special Purpose Pits _____ | Multi-Well Pits _____ | Temporary Large Volume Above Ground Tanks <u>5</u> |
| Pump Jacks _____ | Separators _____ | Injection Pumps _____ | Cavity Pumps _____ | |
| Gas or Diesel Motors _____ | Electric Motors _____ | Electric Generators _____ | Fuel Tanks _____ | Gas Compressors _____ |
| Dehydrator Units _____ | Vapor Recovery Unit _____ | VOC Combustor _____ | Flare _____ | LACT Unit _____ |
| | | | | Pigging Station _____ |

OTHER FACILITIES

Other Facility Type

Number

temporary Water Pumps

5

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

Temporary water pipelines carrying water from storage tanks to well completion sites will be made of flexible and rigid materials (plastic, aluminum and steel) generally 8" to 12" in diameter. The length will be determined by the distance to the well site to be serviced for the fracing operation.

CONSTRUCTION

Date planned to commence construction: 01/20/2014 Size of disturbed area during construction in acres: 10.90

Estimated date that interim reclamation will begin: 01/30/2021 Size of location after interim reclamation in acres: 10.90

Estimated post-construction ground elevation: 4699

DRILLING PROGRAM

Will a closed loop system be used for drilling fluids: _____

Is H₂S 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: Robert and Virginia Feit

Phone: _____

Address: 32059 CR 47

Fax: _____

Address: _____

Email: _____

City: Greeley State: CO Zip: 80631

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: No

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 09/05/2013

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

Distance to nearest:

Building: 2509 Feet
Building Unit: 2466 Feet
High Occupancy Building Unit: 5280 Feet
Designated Outside Activity Area: 5280 Feet
Public Road: 1773 Feet
Above Ground Utility: 1770 Feet
Railroad: 5280 Feet
Property Line: 505 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.

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.

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: _____

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 be 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: 19 - Colombo Clay Loam, 0-1% 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: _____

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: 274 Feet

water well: 1894 Feet

Estimated depth to ground water at Oil and Gas Location 11 Feet

Basis for depth to groundwater and sensitive area determination:

Permit #36534 downgradient to site is 11' and other wells in area have depths to groundwater of 15', 30', 37', 39'. Site is upgradient to 2 irrigation ditches located @ 274' & 621'.

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: _____

GROUNDWATER BASELINE SAMPLING AND MONITORING AND WATER WELL SAMPLING

Water well sampling required per Rule 318A

DESIGNATED SETBACK LOCATION EXCEPTIONS

Check all that apply:

- ☐ Rule 604.a.(1)A. Exception Zone (within 500' of Building Unit)
- ☐ 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 is requesting a new location for this permit as the existing adjacent location IDs #329058 & 433391 have differing interim & final reclamation terms. Noble has entered into a multi year land lease/rental agreement with the surface owner to build this site. This site will be a centralized Large Volume Storage Tank farm to be utilized for fracking multiple drill pads in the area over the course of several years. This facility was designed to mitigate heavy truck traffic normally required to haul water to each individual site. These LVSTs will be filled on an "as needed basis" through temporary above ground waterlines coming into the location from the south. Noble and / or 3rd parties have secured necessary ROW to run these lines to pump water to the LVSTs for filling. The site is laid out to accommodate the center pivot irrigation system which is located in the portion of the field unleased by Noble. By spreading the LVSTs out in a line, the smallest amount of field is blocked from the pivot. Noble also configured the placement of the LVST to be a safe distance from the existing tank battery to the north, the permitted tank battery to the west, the wellheads which fall within the work area and the northwestern most progress of the irrigation pivot. The irrigation ditch noted on the Location drawing within the disturbed area is not active. The scale line noted on the location drawing is an abandoned ditch. Topography is almost flat, with a slight down gradient to the east & is down gradient to the Darling Reservoir by 2195'. The location was formerly an irrigated field. A catastrophic LVST failure would disperse into the agricultural field to the East. As each pad is fracked, a temporary above ground water line will be run from the central facility to the pad. The routing will depend on the time of year and how we will be crossing roadways, ditches, & field access points will be addressed with all parties that have an interest in the lands being utilized. Noble will acquire temporary ROW from surface owners, municipalities, counties or, again, with any party that has an interest in the lands being utilized. Noble will lay these temporary above ground waterlines in locations which provide the least impact to existing farming & oil & gas operations as dictated by the season and length of time the temporary waterlines will be left in place. To control dust and erosion during the lease period, Noble will utilize existing cover crop by keeping crop disturbance to a minimum. Only LVST pads will be scraped to remove vegetation and provide a level surface for the tanks. A road base path will be laid to allow access to the tanks and water pumps. Weed control will include mowing, spraying or other acceptable measures. At the end of the multi year lease period, Noble will reclaim according to 1004 Final Reclamation. Interim reclamation acreage not applicable for this type of site. A contingency plan will be in place to guide the siting of LVSTs pre-construction and the response actions required in the event of a release from an LVST.

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

Signed: _____ Date: _____ Email: regulatorynotification@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: _____

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.

COA Type

Description

| | |
|--|--|
| | |
|--|--|

Best Management Practices

| No | <u>BMP/COA Type</u> | <u>Description</u> |
|-----------|--|---|
| 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 | 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: 2 comment(s)

Attachment Check List

| <u>Att Doc Num</u> | <u>Name</u> |
|---------------------------|-------------------------|
| 400514768 | ACCESS ROAD MAP |
| 400514769 | HYDROLOGY MAP |
| 400514770 | LOCATION DRAWING |
| 400514771 | LOCATION PICTURES |
| 400514772 | NRCS MAP UNIT DESC |
| 400514774 | FACILITY LAYOUT DRAWING |
| 400527147 | SURFACE AGRMT/SURETY |

Total Attach: 7 Files

General Comments

| <u>User Group</u> | <u>Comment</u> | <u>Comment Date</u> |
|--------------------------|-----------------------|----------------------------|
| | | |

Total: 0 comment(s)