

**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:

400476279

Date Received:

10/21/2013

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:

435539

Expiration Date:

12/22/2016☒ 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: WELLS RANCHNumber: AE30-67-1AHNA MCounty: WELDQuarterQuarter: SWNW Section: 29 Township: 6N Range: 62W Meridian: 6 Ground Elevation: 4765

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: 1884 feet FNL from North or South section line65 feet FWL from East or West section lineLatitude: 40.459790 Longitude: -104.356070PDOP Reading: 1.9 Date of Measurement: 07/29/2013Instrument Operator's Name: ADAM KELLY

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)

400486823

400487935

FACILITIES

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

Wells	12	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	
Pump Jacks	12	Separators	10	Injection Pumps		Cavity Pumps			
Gas or Diesel Motors		Electric Motors		Electric Generators		Fuel Tanks		Gas Compressors	3
Dehydrator Units		Vapor Recovery Unit		VOC Combustor		Flare	3	LACT Unit	
								Pigging Station	

OTHER FACILITIES

Other Facility Type

Number

Gas Pipeline	1
Produced Liquid Pipeline	1
Meter Building	8
Maintenance Tank	1
Blowcase	4
Sand Catchers	30
Scrubbers	2
3 phase flowlines	24
Oil Quality Building	1

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

Two gathering pipelines, one (1) 8" steel produced liquids line (oil and produced water) and one (1) 12" steel gas pipeline. Lines will be laid approximately 4' below surface grade, spaced 10' apart. Pipeline Area length is approximately +/- 5,600', with a proposed route spanning from a connect point in T6N R62W Sec. 19 near the SE/4NE/4 to the new production facility tie-in point T6N R62W Sec. 29 W/2W/2.

CONSTRUCTION

Date planned to commence construction: 12/23/2013

Size of disturbed area during construction in acres: 26.00

Estimated date that interim reclamation will begin: 05/30/2014

Size of location after interim reclamation in acres: 14.80

Estimated post-construction ground elevation: 4765

DRILLING PROGRAM

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

Is H₂S anticipated? No

Will salt sections be encountered during drilling: No

Will salt based mud (>15,000 ppm Cl) be used? No

Will oil based drilling fluids be used? No

DRILLING WASTE MANAGEMENT PROGRAM

Drilling Fluids Disposal: OFFSITE

Drilling Fluids Disposal Method: Recycle/reuse

Cutting Disposal: OFFSITE

Cuttings Disposal Method: Beneficial reuse

Other Disposal Description:

Beneficial reuse or land application plan submitted? Yes

Reuse Facility ID: _____ or Document Number: 2614238

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

SURFACE & MINERALS & RIGHT TO CONSTRUCT

Name: WELLS RANCH, LLLP

Phone: _____

Address: 32010 COUNTY ROAD 63

Fax: _____

Address: _____

Email: _____

City: GILL State: CO Zip: 80204

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: Surface Use Agreement

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

Date of Rule 306 surface owner consultation 05/14/2013

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: 1157 Feet
Building Unit: 5280 Feet
High Occupancy Building Unit: 5280 Feet
Designated Outside Activity Area: 5280 Feet
Public Road: 5280 Feet
Above Ground Utility: 5280 Feet
Railroad: 5280 Feet
Property Line: 65 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: 44 - OLNEY LOAMY SAND, 1-3% SLOPES

NRCS Map Unit Name: 74 - VONA LOAMY SAND, 5-9% SLOPES

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: 05/14/2013

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): _____

WATER RESOURCES

Is this a sensitive area: ☒ No ☐ Yes

Distance to nearest

downgradient surface water feature: 5280 Feet

water well: 3068 Feet

Estimated depth to ground water at Oil and Gas Location 91 Feet

Basis for depth to groundwater and sensitive area determination:

Depth to GW is >20 ft. Location does not provide easily available pathways of communication with deeper GW. Location is not within sensitive proximity to downgradient surface water or water wells. Approx. 4.9 miles from nearest alluvial system. Location is not in a designated WQCC area. Location is not in a floodplain. Blue water lines on topos, upon site inspection, are not visible and have no earth indentation indicating the presense of any intermittent water. Estimated Depth to ground water taken from permit #77139-F-.

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

The production equipment will be located between the two banks of 6 wells and will be included within the same disturbance.

The following wells will be drilled from this pad:

Wells Ranch AE30-66-1AHNA, AE30-66-1HNC, AE30-66-HNC, AE30-66-1BHNA, AE30-65-1HNC, AE30-65-1AHNA, AE30-65-1BHNA, AE30-65-HNC, AE30-67-1HNC, AE30-67-1BHNA, AE30-67-1AHNA, AE30-64-HNC

Noble plans to drill additional wells from this location and expects to permit them within 1 year. Noble also foresees using this Oil and Gas Location to support Oil and Gas Operations, including drilling and completions, on nearby Well Sites. For these reasons, Noble will construct a semi-permanent, stabilized pad surface that will be left larger than typical, historic interim reclamation disturbances. Noble and COGCC are continuing to develop plans, permit language, and Best Management Practices that will be employed at this Oil and Gas Location to ensure that the proposed surface disturbance will be managed in compliance with COGCC Rules. Upon agreement and with surface owner consent, Noble will submit those details for COGCC approval on a Form 4, Sundry Notice. Until that time, COGCC Interim Reclamation Rules will be applicable.

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

Signed: _____ Date: 10/21/2013 Email: permitting@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: 12/23/2013

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

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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.
4	Construction	<p>WATER VAULT BMP:</p> <ol style="list-style-type: none"> 1. A contiguous spray liner will be installed and will underlay the entire tank battery. The location of a partially buried cement water vault will be excavated prior to liner install. 2. A 60 bbl cement water vault will be utilized to collect excess produced water from oil tanks. Produced water in the vault will be removed as needed and disposed of in an approved UIC disposal well. The cement water vault is one piece with no seams designed to minimize potential for leaks. All piping associated with the use of the water vault will be aboveground and visually inspected on a regular basis. 3. The partially buried cement water vault will be installed above the spray in liner. 4. A sized steel secondary containment ring will be installed surrounding the entire tank battery. Sand and gravel bedding will be installed to protect the liner prior to placing equipment in the containment area.

Total: 4 comment(s)

Attachment Check List

<u>Att Doc Num</u>	<u>Name</u>
1668006	FACILITY LAYOUT DRAWING
1668007	CORRESPONDENCE
400476279	FORM 2A SUBMITTED
400487487	ACCESS ROAD MAP
400487489	HYDROLOGY MAP
400487490	LOCATION DRAWING
400487491	LOCATION PICTURES
400487492	MULTI-WELL PLAN
400487493	NRCS MAP UNIT DESC
400487494	REFERENCE AREA MAP
400487495	REFERENCE AREA PICTURES
400487496	SURFACE AGRMT/SURETY

Total Attach: 12 Files

General Comments

<u>User Group</u>	<u>Comment</u>	<u>Comment Date</u>
Permit	Final Review Completed. No LGD or public comment received.	12/20/2013 1:24:05 PM
OGLA	IN PROCESS - Added statement on interim reclamation and future operator operations to OPerator Comments. Changed interim reclamation size and distance to nearest water well. No public comments. OGLA task passed.	12/20/2013 9:32:15 AM
Permit	ok to pass.	12/2/2013 1:48:05 PM
Permit	Operator requests approval of a Rule 318Aa and Rule 318Ac exception location: Wellhead is to be located outside of a GWA drilling window and will be located more than 50' from an existing well location. Request and waivers attached.	12/2/2013 1:48:04 PM
Permit	Operator requests approval of a Rule 603.a.(2) exception location: Wellhead is to be located less than 150' from a property line. Request letter and waivers attached.	12/2/2013 1:48:03 PM
OGLA	ON HOLD - Requested further information of size of disturbance after interim reclamation and a Facility Layout Drawing. Due by 12/11/13.	11/11/2013 11:32:57 AM
Permit	Oper. req'd addition of Related Remote Loc. ID#400486823.	10/24/2013 1:20:08 PM
Permit	This form passes completeness.	10/22/2013 7:03:41 AM

Total: 8 comment(s)