

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:

401049695

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Date Received:

05/25/2016

Oil and Gas Location Assessment

New Location Refile Amend Existing Location Location#: _____

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:

446987

Expiration Date:

07/27/2019

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@nbleenergy.com

RECLAMATION FINANCIAL ASSURANCE

Plugging and Abandonment Bond Surety ID: 20030009

Gas Facility Surety ID: _____

Waste Management Surety ID: _____

LOCATION IDENTIFICATION

Name: Camenisch Supreme Camp

Number: L02 Tank

County: WELD

Quarter: SWNE Section: 4 Township: 4N Range: 66W Meridian: 6 Ground Elevation: 4689

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: 1908 feet FNL from North or South section line

2525 feet FEL from East or West section line

Latitude: 40.343850 Longitude: -104.783120

PDOP Reading: 1.3 Date of Measurement: 04/28/2016

Instrument Operator's Name: Alan Hnizdo

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)	310877	
	328805	
	332843	
	328715	

FACILITIES

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

Wells	Oil Tanks*	4	Condensate Tanks*	Water Tanks*	Buried Produced Water Vaults*	2
Drilling Pits	Production Pits*		Special Purpose Pits	Multi-Well Pits*	Modular Large Volume Tanks	
Pump Jacks	Separators*	3	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:

Six (6) 3-8" flowlines, One (1) 3-8" Gas Line - No proposed pipeline to be added to this site

CONSTRUCTION

Date planned to commence construction: 09/16/2016 Size of disturbed area during construction in acres: 0.75
 Estimated date that interim reclamation will begin: 09/23/2016 Size of location after interim reclamation in acres: 0.75
 Estimated post-construction ground elevation: 4689

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: Varra Companies, Inc.

Phone: _____

Address: 8120 Gage Street

Fax: _____

Address: _____

Email: _____

City: Frederick State: CO Zip: 80516

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

Date of Rule 306 surface owner consultation 04/01/2016

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	<u>1455</u> Feet
Building Unit:	_____ Feet	<u>1455</u> Feet
High Occupancy Building Unit:	_____ Feet	<u>5280</u> Feet
Designated Outside Activity Area:	_____ Feet	<u>5280</u> Feet
Public Road:	_____ Feet	<u>44</u> Feet
Above Ground Utility:	_____ Feet	<u>68</u> Feet
Railroad:	_____ Feet	<u>2300</u> Feet
Property Line:	_____ Feet	<u>55</u> 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: _____

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 (onl 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: 3 - Aquolls and Aquents, gravelly substratum, 0-3 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: _____

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: 104 Feet

water well: 658 Feet

Estimated depth to ground water at Oil and Gas Location 9 Feet

Basis for depth to groundwater and sensitive area determination:

This location is marked sensitive due to being within a mapped floodplain and depth to groundwater. Nearest well is an irrigation well. Nearest domestic well is approx 2200' away. The nearest surface water feature is 66' west and upgradient. 104' to the nearest downgradient surface water.

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

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 Energy will be adding an above ground line which will block the current truck turnaround, therefore the disturbance area will be increased to the south to relocate the turnaround.
Before construction the disturbance area is 0.45 acres and we will be adding approx. 0.30 acres to the disturbance for a total reclaimed acreage of 0.75 acres after operations.
Public Road 44' west is County Road 44
Existing facility appears to be within the FEMA 100 year floodplain – See water resources sensitive area determination 6 Associated wells:
CAMENISCH-SUPREME C 2-4B *COGCC Name: CAMENISCH-SUPREME CAMP 2-4B (API# 05-123-27185, Location id# 332843) located approx. 463' east of location.
CAMENISCH KAMMERZEL 7-4 *COGCC Name: CAMENISCH - SUPREME CAMP 7-4 (API# 05-123-16349, Location id# 332843) located approx. 502' east of location
CAMENISCH-SUPREME CAMP 08-04B (API# 05-123-27188, Location id# 310887) located approx. 1,938' east of location
CAMENISCH-SUPREME C 8-4 *COGCC Name: CAMENISCH - SUPREME CAMP 8-4 (API# 05-123-16458, Location id# 328805) located approx. 1,914' east of location
CAMENISCH-SUPREME CAMP 07-04B (API# 05-123-27184, Location id# 332843) located approx. 485' east of location
CAMENISCH-SUPREME C 2-4 *COGCC Name: CAMENISCH - SUPREME CAMP 2-4 (API# 05-123-16335, Location id# 328715) located approx. 1,237' northeast of location
Equipment:
We will be removing one (1) Separator from the location.
Existing equipment includes:
Two (2) VOC Combustors, Four (4) Oil Tanks, Four (4) Separators, Two (2) Buried Water Vaults
Total equipment after operations includes:
Two (2) VOC Combustors, Three (3) Separators, Four (4) Tanks, Two (2) Buried Water Vaults

STEM project - existing location with no SUA.

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

Signed: _____ Date: 05/25/2016 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:  Director of COGCC Date: 7/28/2016

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

<u>No</u>	<u>BMP/COA Type</u>	<u>Description</u>
1	Planning	Visual mitigation is not currently planned, however if necessary, Noble will re-evaluate.
2	Traffic control	Traffic control plan will not be created, based on the limited scope of work.
3	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.

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	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.
6	Storm Water/Erosion Control	The compressor will be anchored to comply with 603.g and location currently has Floodplain BMP's installed on existing equipment.
7	Material Handling and Spill Prevention	Noble Energy Inc. designs facilities to avoid releases and to be compliant with all regulations specific to leak detection and control (i.e. SPCC 40CFR112). Inspections are performed at the Facility to confirm operational integrity and regulatory compliance. Noble will perform maintenance if it is deemed necessary through any of the scheduled inspections.
8	Material Handling and Spill Prevention	Any material not in use that might constitute a fire hazard shall be removed a minimum of twenty-five (25) feet from the wellhead, tanks and separator. Any electrical equipment installations inside the bermed area shall comply with API RP 500 classifications and comply with the current national electrical code as adopted by the State of Colorado.
9	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.
10	Construction	Berms or other secondary containment devices shall be sufficiently impervious to contain any spilled or released material. All berms and containment devices shall be inspected at regular intervals and maintained in good condition. No potential ignition sources shall be installed inside the secondary containment area unless the containment area encloses a fired vessel. Refer to American Petroleum Institute Recommended Practices, API RP - D16.
11	Construction	The existing fence running north to south of the Facility will not be affected by construction activities.
12	Construction	The Facility disturbance area footprint will be increased by approximately 0.3 acre, south of location. An above ground line will be added to location, running from tanks to the VOC burners. A separator will be removed and two VOC burners will be replaced. The new Facility disturbance area will accommodate a turn-around area for routine truck traffic, associated with operations. The Facility is located within the 100-Year FEMA Floodplain and requires floodplain mitigation. Tanks and separators will be tied-down and tanks will have flood barriers installed up-gradient (Jersey-barriers, structural fencing, concrete). The Facility will be listed with Noble Energy, Inc. floodplain inventory.
13	Construction	At the time of construction, leasehold roads entering location from the north shall be constructed to accommodate local emergency vehicle access requirements, and shall be maintained in a reasonable condition.
14	Noise mitigation	Permanent facility – Sound walls may be installed around any permanent equipment if deemed necessary.

Total: 14 comment(s)

Attachment Check List

<u>Att Doc Num</u>	<u>Name</u>
1668980	CORRESPONDENCE
401049695	FORM 2A SUBMITTED
401049731	ACCESS ROAD MAP
401049732	HYDROLOGY MAP
401049735	LOCATION PICTURES
401049736	NRCS MAP UNIT DESC
401049737	WASTE MANAGEMENT PLAN
401058345	LOCATION DRAWING

Total Attach: 8 Files

General Comments

<u>User Group</u>	<u>Comment</u>	<u>Comment Date</u>
Permit	Final Review Completed.	7/22/2016 8:54:08 AM
Permit	Per operator added to comments "STEM project - existing location with no SUA." Changed right to construct from Oil & Gas lease to N/A. Changed "will minerals beneath location be developed from yes to no. Permitting Review Complete.	7/22/2016 8:52:43 AM
Permit	ON HOLD: requesting changed right to construct from Oil & Gas lease to SUA. Change "will minerals beneath location be developed from yes to no.	7/19/2016 4:09:47 PM
OGLA	Operator responded with answers to questions. OGCC updated accordingly and attached as correspondence. OGLA technical review complete. No public comments. Pass OGLA task.	7/14/2016 4:49:08 PM
OGLA	Sent email to Operator regarding questions from 6/13/16.	6/29/2016 3:05:48 PM
LGD	Proposed location in the City of Evans.	6/27/2016 10:45:24 AM
OGLA	OGLA review - existing locaiton in the flood plain. Location of nearest water well is irrigation well to the south. Ask about distance from reference area point to northern section line, change building distance to match building unit as closer to nearest piece of equipment, ask for BMPs to meet new flood plain rules 603.g and 603.h(2).	6/13/2016 3:12:13 PM
Permit	Passed completeness.	5/6/2016 1:25:51 PM
Permit	Unchecked "surface owner is committed" per operator request.	5/6/2016 1:20:25 PM
Permit	Note: location drawing attached.	5/6/2016 1:19:43 PM
Permit	Returned to draft: -- Missing location drawing -- Surface owner "is committed" is checked, but Surface owner "is mineral owner" is not checked	6/3/2016 12:49:23 PM

Total: 11 comment(s)