

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:

400436788

Date Received:

07/27/2013

Oil and Gas Location Assessment

☒ New Location ☐ Amend Existing Location Location#: _____

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:

434874

Expiration Date:

10/29/2016

☒ 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: JAN KAJIWARA

Phone: (303) 228-4092

Fax: (303) 228-4286

email: jkajiwara@nobleenergyinc.com

4. Location Identification:

Name: BURTON K Number: 25-69-1HNL

County: WELD

QuarterQuarter: NWNW Section: 25 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: 341 feet FNL, from North or South section line, and 236 feet FWL, from East or West section line.

Latitude: 40.289280 Longitude: -104.734070 PDOP Reading: 1.8 Date of Measurement: 03/27/2013

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="text"/>	Drilling Pits: <input type="text"/>	Wells: <input type="text" value="2"/>	Production Pits: <input type="text"/>	Dehydrator Units: <input type="text"/>
Condensate Tanks: <input type="text"/>	Water Tanks: <input type="text" value="4"/>	Separators: <input type="text" value="13"/>	Electric Motors: <input type="text"/>	Multi-Well Pits: <input type="text"/>
Gas or Diesel Motors: <input type="text"/>	Cavity Pumps: <input type="text"/>	LACT Unit: <input type="text" value="1"/>	Pump Jacks: <input type="text" value="2"/>	Pigging Station: <input type="text"/>
Electric Generators: <input type="text"/>	Gas Pipeline: <input type="text" value="1"/>	Oil Pipeline: <input type="text"/>	Water Pipeline: <input type="text"/>	Flare: <input type="text"/>
Gas Compressors: <input type="text" value="2"/>	VOC Combustor: <input type="text" value="7"/>	Oil Tanks: <input type="text" value="17"/>	Fuel Tanks: <input type="text"/>	

Other: 10 EFM'S, 5 WATER VAULTS, 5 THREE PHASE FLOWLINES, 1 VRT, 3 SAND CATCHERS, 1 COMPRESSOR SUCTION SCRUBBER, 1 VERITICAL VRU SCRUBBER, 3 BLOWCASES, 1 LIQUID KNOCKOUT, 6 RTU, 1 KNOCKOUT DRUM, 1 KNOCKOUT TANK, 1 COMPRESSOR SKID PLATE, 1 WELLHEAD COMPRESSOR, 2 VRU'S.

6. Construction:

Date planned to commence construction: 11/01/2013 Size of disturbed area during construction in acres: 9.00
Estimated date that interim reclamation will begin: 01/01/2014 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: 04/24/2013
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 Mgmt. 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: 226, above ground utility: 265,
railroad: 5280, property line: 236

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: 76-VONA SANDY LOAM, 1-3% SLOPES

NRCS Map Unit Name: 12-BRESSER SANDY LOAM, 1-3% SLOPES

NRCS Map Unit Name: 51-OTERO SANDY LOAM, 1-3% SLOPES

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: 03/27/2013

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): _____

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: 220 , water well: 681 , depth to ground water: 27

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:

NEAREST RAILROAD IS GREATER THAN 5280'. BURTON K25-69-1HNL DRILLED ON SAME PAD AS BURTON K25-68-1HNM. NEAREST WATER WELL PER COGCC PERMIT 18876 WAS NOT LOCATED PER FIELD OBSERVATION. NEAREST WATER WELL DEPTH TO GROUND WATER WAS TAKEN FROM RECEIPT 0315154 PERMIT 158140. NEAREST SURFACE WATER ARE TWO IRRIGATION DITCHES LOCATED 220' AND 253' WEST OF PAD THAT WILL BOTH BE DRY DURING DRILLING OPERATIONS. A STEEL RING AND LINER WILL BE USED AROUND FACILITY TO PREVENT SPILLS INTO THESE DITCHES. GAS LINES LOCATED 192' WEST OF PAD AND 204' NE OF PAD WITHIN DISTURBANCE WILL BE SHUT IN OR RELOCATED. THE EXISTING PRODUCTION FACILITY FOR THE MILLER K25-31 WILL BE REMOVED DURING DRILLING OPERATIONS AND RELOCATED NORTH OF THE PAD TO THE NEW FACILITY THAT WILL BE BUILT AND USED FOR THE BURTON K25-69-1HNL, 68-1HNM, 67-1HN. NEW FACILITY WILL BE LOCATED WITHIN THE DISTURBANCE AREA. REFERENCE AREA PICTURE WAS TAKEN IN SWNW OF SEC. 25 TO REFLECT RANGELAND GROUND OUTSIDE OF DISTURBANCE AREA. EXISTING EQUIPMENT: 1 TANK, 1 SEPARATOR, 1 VOC, 1 THREE PHASE FLOW LINE, 1 EFM, 1 WATER VAULT, 1 GAS PIPELINE. NEW EQUIPMENT: 16 TANKS, 12 SEPARATORS, 6 VOC, 4 THREE PHASE FLOWLINES, 9 EFM'S, 4 WATER VAULTS, 4 WATER TANKS, 2 PUMP JACKS, 2 GAS COMPRESSORS, 1VRT, 3 SAND CATCHERS, 1 COMPRESSOR SUCTION SCRUBBER, 1 VERTICAL VRU SCRUBBER, 3 BLOWCASES, 1 LIQUID KNOCKOUT, 6 RTU'S 1 KNOCKOUT DRUM, 1 KNOCKOUT TANK, 1 COMPRESSOR SKID PLATE, 1 WELLHEAD COMPRESSOR, 2 VRU'S. TOTAL EQUIPMENT: 17 TANKS, 13 SEPARATORS, 76 VOC, 54 THREE PHASE FLOWLINES, 10 EFM'S, 5 WATER VAULTS, 4 WATER TANKS, 2 PUMP JACKS, 2 GAS COMPRESSORS, 1VRT, 3 SAND CATCHERS, 1 COMPRESSOR SUCTION SCRUBBER, 1 VERTICAL VRU SCRUBBER, 3 BLOWCASES, 1 LIQUID KNOCKOUT, 6 RTU'S, 1 GAS PIPELINE, 1 KNOCKOUT DRUM, 1 KNOCKOUT TANK, 1 COMPRESSOR SKID PLATE, 1 WELLHEAD COMPRESSOR, 2 VRU'S.

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

Signed: _____ Date: 07/27/2013 Email: jkajiwara@nobleenergyinc.com

Print Name: JAN KAJIWARA 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: 10/30/2013

**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

Provide noise mitigation during drilling and completion activities and for permanent production equipment as described in attachments.

The existing tank battery shall be closed in accordance with Rule 905.

Attachment Check List

<u>Att Doc Num</u>	<u>Name</u>
1642131	CONST. LAYOUT DRAWINGS
1642132	PROPOSED BMPs
1642133	CORRESPONDENCE
400436788	FORM 2A SUBMITTED
400450887	ACCESS ROAD MAP
400450888	LOCATION PICTURES
400450889	REFERENCE AREA PICTURES
400450891	LOCATION DRAWING
400450892	HYDROLOGY MAP
400450894	MULTI-WELL PLAN
400450895	NRCS MAP UNIT DESC
400450896	WASTE MANAGEMENT PLAN

Total Attach: 12 Files

General Comments

<u>User Group</u>	<u>Comment</u>	<u>Comment Date</u>
Permit	Final review complete.	10/28/2013 9:01:59 AM
OGLA	Mitigation plan attached. see doc 1642131 & 1642132.	10/25/2013 2:50:58 PM
OGLA	Per SUA and negotiations with tenant farmer, Oil and Gas Facilities will remain at NWNW section 25. Operator has provided mitigation measures for noise, lights and visual with respect to neighbor who is tenant farmer. Correspondence attached and Form 2A taken off hold.	10/25/2013 2:43:59 PM
Final Review	Placed Form 2A ON HOLD. Operator should either propose production facilities to be located in SWNW section 25 (Form 2A doc 400407690) or provide technological and economic justification for this location.	9/15/2013 8:33:34 PM
OGLA	Reviewed 8/29/2013.	8/29/2013 10:47:17 AM
Permit	Ready to pass pending public comment 8/22/13	8/12/2013 2:24:27 PM
Permit	Passed completeness	8/1/2013 10:51:35 AM
Permit	Returned to draft. Requested verification of mineral owner and for form 2's to be related.	7/30/2013 6:52:48 AM

Total: 8 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 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 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	Noise mitigation	Earthen berm will be situated west of production facilities; sound wall will be situated west and north of separation, compression and combustion equipment. See doc 1642131 & 1642132.

Total: 4 comment(s)