

FORM 2A

Rev 04/01

State of Colorado Oil and Gas Conservation Commission

1120 Lincoln Street, Suite 801, Denver, Colorado 80205 Phone: (303) 894-2100 Fax: (303) 894-2109



Table with columns DE, ET, OE, ES

Document Number: 400105213

Oil and Gas Location Assessment

New Location Amend Existing Location Location#: 330494

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.

Location ID: 330494 Expiration Date: 11/12/2014

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: FRONT RANGE K Number: 17-28D County: WELD Quarter: NWNE Section: 17 Township: 4N Range: 66W Meridian: 6 Ground Elevation: 4705

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.

Footage at surface: 820 feet FNL, from North or South section line, and 1906 feet FEL, from East or West section line. Latitude: 40.316750 Longitude: -104.798780 PDOP Reading: 1.2 Date of Measurement: 09/14/2010 Instrument Operator's Name: BRIAN T. BRINKMAN

5. Facilities (Indicate the number of each type of oil and gas facility planned on location):

Special Purpose Pits: [] Drilling Pits: [] Wells: [2] Production Pits: [] Dehydrator Units: []
Condensate Tanks: [] Water Tanks: [] Separators: [] Electric Motors: [] Multi-Well Pits: []
Gas or Diesel Motors: [] Cavity Pumps: [] LACT Unit: [] Pump Jacks: [] Pigging Station: []
Electric Generators: [] Gas Pipeline: [] Oil Pipeline: [] Water Pipeline: [] Flare: []
Gas Compressors: [] VOC Combustor: [] Oil Tanks: [] Fuel Tanks: []

Other: ONE THREE-PHASE FLOWLINE RUNNING APPROX 1154' NE TO PLANNED PRODUCTION FACILITY. SEE DOC. 400105224

6. Construction:

Date planned to commence construction: 10/01/2011 Size of disturbed area during construction in acres: 3.00
Estimated date that interim reclamation will begin: 12/01/2011 Size of location after interim reclamation in acres: 1.00
Estimated post-construction ground elevation: 4705 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: 09/28/2010
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 20030012

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: 850, public road: 800, above ground utilit: 1200
, railroad: 5280, property line: 802

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 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: 3-AQUOLLS and AQUENTS, GRAVELLY SUBSTRATUM, 0-3% SLOPES

NRCS Map Unit Name: 68-USTIC TORRIORTHENTS, MODERATELY STEEP, 9-15%
NRCS Map Unit Name: _____

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: 09/14/2010
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: 230, water well: 1225, depth to ground water: 34
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'. Nearest water well depth to ground water was taken from Receipt #9060346 Permit #10476-R. LOW LYING AREAS 230' & 320' FROM STAKE DO NOT REPRESENT MARSHY OR WETLAND AREA, ONLY AREAS OF SLIGHTLY LOWER ELEVATION AD WILL NOT BE WITHIN DISTURBED AREA. PAD WILL BE BUILT TO THE NORTH & SOUTH TO AVOID CULTURAL AND SURFACE WATERS. The reference area is on undisturbed ground immediately adjacent to and north of the location as shown in the reference area photo facing north.

I hereby certify that the statements made in this form are, to the best of my knowledge, true, correct and complete.
Signed: _____ Date: 10/11/2011 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: David S. Nashin Director of COGCC Date: 11/13/2011

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.

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Attachment Check List

Att Doc Num	Name
400105213	FORM 2A SUBMITTED
400105416	ACCESS ROAD MAP
400105424	HYDROLOGY MAP
400105425	LOCATION DRAWING
400105432	LOCATION PICTURES
400105437	NRCS MAP UNIT DESC
400105438	REFERENCE AREA PICTURES
400213548	WASTE MANAGEMENT PLAN

Total Attach: 8 Files

General Comments

<u>User Group</u>	<u>Comment</u>	<u>Comment Date</u>
Permit	Final review complete	11/7/2011 9:43:30 AM
Permit	Ready to pass pending public comment 11/2/11.	10/19/2011 1:56:23 PM
OGLA	Operator confirmed that this location is in a sensitive area (riparian). OK to pass.	10/13/2011 2:03:55 PM

Total: 3 comment(s)

BMP

<u>Type</u>	<u>Comment</u>
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.
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.
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: 3 comment(s)