

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



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Document Number:  
400032194

**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 stand alone 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:  
**416540**  
Expiration Date:  
**04/08/2013**

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: TANIA MCNUTT  
Phone: (303) 228-4392  
Fax: (303) 228-4286  
email: tmcnutt@nobleenergyinc.com

**4. Location Identification:**

Name: PAD 27I-BATTLEMENT MESA Number: 26-14B  
County: GARFIELD  
Quarter: NESE Section: 27 Township: 7S Range: 95W Meridian: 6 Ground Elevation: 8636

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: 1874 feet, from North or South section line: FSL and 350 feet, from East or West section line: FEL  
Latitude: 39.406028 Longitude: -107.975288 PDOP Reading: 2.3 Date of Measurement: 08/17/2007

**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" value="1"/>	Wells: <input type="text" value="7"/>	Production Pits: <input type="text"/>	Dehydrator Units: <input type="text"/>
Condensate Tanks: <input type="text" value="7"/>	Water Tanks: <input type="text"/>	Separators: <input type="text" value="7"/>	Electric Motors: <input type="text" value="1"/>	Multi-Well Pits: <input type="text"/>
Gas or Diesel Motors: <input type="text" value="3"/>	Cavity Pumps: <input type="text"/>	LACT Unit: <input type="text"/>	Pump Jacks: <input type="text"/>	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" value="1"/>	Flare: <input type="text"/>
Gas Compressors: <input type="text"/>	VOC Combustor: <input type="text"/>	Oil Tanks: <input type="text" value="7"/>	Fuel Tanks: <input type="text"/>	

Other: \_\_\_\_\_

6. Construction:

Date planned to commence construction: 05/01/2010 Size of disturbed area during construction in acres: 7.00
Estimated date that interim reclamation will begin: 09/01/2010 Size of location after interim reclamation in acres: 5.20
Estimated post-construction ground elevation: 8575 Will a closed loop system be used for drilling fluids: Yes [X]
Will salt sections be encountered during drilling: Yes [ ] No [X] Is H2S anticipated? Yes [ ] No [X]
Will salt (>15,000 ppm TDS Cl) or oil based muds be used: Yes [ ] No [X]
Mud disposal: Offsite [X] Onsite [ ] Method: Land Farming [ ] Land Spreading [ ] Disposal Facility [ ]
Other: EVAP. PIT

7. Surface Owner:

Name: NOBLE ENERGY INC. Phone: 303-228-4471
Address: 1625 BROADWAY #2200 Fax: 303-228-4286
Address: Email: JKOHN@NOBLEENERGYINC.COM
City: DENVER State: CO Zip: 80202 Date of Rule 306 surface owner consultation:
Surface Owner: [X] Fee [ ] State [ ] Federal [ ] Indian [ ]
Mineral Owner: [X] Fee [ ] State [ ] Federal [ ] Indian [ ]
The surface owner is: [X] the mineral owner [ ] committed to an oil and gas lease
[ ] is the executer of the oil and gas lease [X] the applicant
The right to construct the location is granted by: [ ] oil and gas lease [ ] Surface Use Agreement [ ] Right of Way
[X] 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 Mgnt. Surety ID:

9. Cultural:

Is the location in a high density area (Rule 603.b.): Yes [ ] No [X]
Distance, in feet, to nearest building: 7263 , public road: 8096 , above ground utilit: 7263
, railroad: 27887 , property line: 1104

10. Current Land Use (Check all that apply):

Crop Land: [ ] Irrigated [ ] Dry land [ ] Improved Pasture [ ] Hay Meadow [ ] CRP
Non-Crop Land: [X] 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: [X] 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: Torriorthents-Rock outcrop complex, steep (Map Unit 67)

NRCS Map Unit Name: \_\_\_\_\_

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: 09/24/2009

List individual species: SAGE, SNOWBERRY, GAMBEL OAK

Check all plant communities that exist in the disturbed area.

- Disturbed Grassland (Cactus, Yucca, Cheatgrass, Rye)
- Native Grassland (Bluestern, 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): VERY STEEP ROCK OUTCROPS

### 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: 959, water well: 6250, depth to ground water: 39

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:

THE REFERENCE WELL FOR THIS PAD IS BATTLEMENT MESA 26-14B.  
THE PAD DESIGN IS FOR 21 WELLS.  
THE PAD IS LOCATED NEXT TO HIGH MESA ROAD (AN EXISTING NOBLE ENERGY / ENCANA ROAD).  
"THE PAD DESIGN IS FOR 21 WELLS. NOBLE ENERGY PLANS TO DRILL 7 WELLS WITH THIS APPLICATION.  
THE OTHER WELLS SHOWN ARE OPEN SLOTS TO BE USED FOR CONTINGENCY"

THE NINTH CLOSEST WATERWELL WITH AVAILABLE GROUNDWATER DEPTH DATA IS PERMIT NO.188864,  
RECEIPT 0386347A (COLORADO DIVISION OF WATER RESOURCES WEBSITE).  
THIS WELL PAD MAY HAVE BOTH FEE AND FEDERAL MINERAL OWNERS.

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

Signed: \_\_\_\_\_ Date: 01/27/2010 Email: tmcnutt@nobleenergyinc.com

Print Name: TANIA MCNUTT 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. Nash*

Director of COGCC

Date: 4/9/2010

**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.**

Comply with all DOE office of legacy management requests for sampling and analysis of natural gas and other materials associated with drilling and production. Operator must ensure 110 percent secondary containment for any volume of fluids contained at well site during drilling and completion operations. If fluids are conveyed via pipeline, operator must implement best management practices to contain any unintentional release of fluids. Flowback to tanks only. Submit a secondary and tertiary containment plan via sundry notice form 4 for the tanks. Attn: Chris Canfield. Obtain approval of the plan prior to flowback. Produced water from this location may not be transported to or re-used at another location without specific written approval from COGCC and only after analysis confirms compliance with the Rulison SAP. Drill solids and cuttings from this location may not be transported to, disposed of or re-used at another location without specific written approval from COGCC and only after analysis confirms compliance with the Rulison SAP. A closed loop mud system shall be utilized to ensure containment of all materials that have been in contact with downhole strata and fluids. All cuttings and fresh make up water storage pits shall be lined to ensure containment. Contour features, french drains and other stormwater BMPs as necessary shall be employed to ensure site integrity. No individual operator shall utilize more than one rig within one mile of the project rulison blast site at any given time and no individual operator shall utilize more than two rigs within a three mile radius of the site at any given time. The total number of rigs allowed by all operators within three miles of the site shall be limited to five at any given time. Operator shall comply with all provisions of the most recent COGCC approved revision of the rulison sampling and analysis plan. In addition to the produced water sampling and analysis outlined in section 5.8 of the plan the operators shall also obtain and analyze produced water samples on wells described in the plan for constituents listed in the plan using the specified method where applicable. Pit construction shall comply with the "reserve pit and liner design technical specifications," dated July 2008. The moisture content of any drill cuttings in a cuttings pit, trench, or pile shall be as low as practicable to prevent accumulation of liquids greater than de minimis amounts. At the time of closure, the drill cuttings must also meet the applicable standards of Table 910-1. No portion of any pit that will be used to hold liquids shall be constructed on fill material, unless the pit and fill slope are designed and certified by a professional engineer, subject to review and approval by the director prior to construction of the pit. The construction and lining of the pit shall be supervised by a professional engineer or their agent. The entire base of the pit must be in cut.

### Attachment Check List

Att Doc Num	Name	Doc Description
1637931	MULTI-WELL PLAN	LF@2448569 1637931
2032933	CORRESPONDENCE	LF@2435552 2032933
2032952	CORRESPONDENCE	LF@2435590 2032952
2032953	PROPOSED BMPs	LF@2435600 2032953
400032218	30 DAY NOTICE LETTER	LF@2394791 400032218
400032221	ACCESS ROAD MAP	LF@2394793 400032221
400032223	CONST. LAYOUT DRAWINGS	LF@2394796 400032223
400032224	HYDROLOGY MAP	LF@2394802 400032224
400032225	LOCATION DRAWING	LF@2394805 400032225
400032227	LOCATION PICTURES	LF@2394808 400032227
400032228	REFERENCE AREA PICTURES	LF@2394811 400032228
400032229	REFERENCE AREA MAP	LF@2394814 400032229
400032230	PROPOSED BMPs	LF@2394816 400032230
400032860	MULTI-WELL PLAN	LF@2394818 400032860
400036917	NRCS MAP UNIT DESC	LF@2394821 400036917
400036920	FORM 2A SUBMITTED	LF@2394823 400036920

Total Attach: 16 Files