

**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:
400057754

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:

420044

Expiration Date:

10/26/2013

☒ 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: MARI CLARK
Phone: (303) 228-4413
Fax: (303) 228-4286
email: mclark@nobleenergyinc.com

4. Location Identification:

Name: FIVE RIVERS K Number: 08-23
County: WELD
QuarterQuarter: SWSE Section: 8 Township: 4N Range: 66W Meridian: 6 Ground Elevation: 4703
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: 1138 feet FSL, from North or South section line, and 1441 feet FEL, from East or West section line.
Latitude: 40.322110 Longitude: -104.797460 PDOP Reading: 1.0 Date of Measurement: 03/01/2010
Instrument Operator's Name: KING SURVEYORS INC

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

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

Other: 4 3 PHASE FLOW LINES FLOWING TO AN EXISTING PRODUCTION FACILITY LOCATED APPROX. 325' NE OF WELL SITE. SEE DOC #400057755 FOR DETAILS.

6. Construction:

Date planned to commence construction: 03/15/2011 Size of disturbed area during construction in acres: 3.00
 Estimated date that interim reclamation will begin: 05/15/2011 Size of location after interim reclamation in acres: 1.00
 Estimated post-construction ground elevation: 4703 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: FIVE RIVERS CATTLE LLC Phone: _____
 Address: 3855 PRECISION DR. Fax: _____
 Address: C/O BILLY SCHMITZ Email: _____
 City: LOVELAND State: CO Zip: 80538 Date of Rule 306 surface owner consultation: 02/04/2010
 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 Mgnt. Surety ID: _____

9. Cultural:

Is the location in a high density area (Rule 603.b.): Yes ☐ No ☒
 Distance, in feet, to nearest building: 5281 , public road: 1140 , above ground utilit: 181
 , railroad: 4000 , property line: 220

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 & AQUENTS, GRAVELLY SUBSTRATUM

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: _____

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: 122, water well: 934, depth to ground water: 6

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 Supply 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:

PERMIT #4485 USED FOR STATIC H2O LEVEL. NEAREST SURFACE WATER IS DITCH TO THE NORTH. NOBLE IS AWARE OF THE BALD EAGLE WINTER NIGHT ROOST & WILL USE DRILLING OPERATIONS ONLY BETWEEN MARCH 15TH & NOVEMBER 15. THIS LOCATION IS A FOUR WELL PAD CONSISTING OF: FIVE RIVERS K08-23, 08-24D, 09-33D & K16-30D.

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

Signed: _____ Date: 08/09/2010 Email: mclark@nobleenergyinc.com

Print Name: MARI CLARK Title: REG. ANALYST II

IMPORTANT: SOME DATA FIELDS HAVE BEEN MODIFIED.

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. Neslin

Director of COGCC

Date: 10/27/2010

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.

Operator must implement best management practices including, but not limited to, construction of a berm or diversion dike, site grading, or other comparable measures sufficiently protective of the ditch located 122 feet to the north shown as B on the location drawing to prevent impact by any unintentional release of drilling, completion, or produced fluids

Location is in a sensitive area because of shallow groundwater; therefore, either a lined drilling pit or closed loop system is required

Surface disturbance shall not encroach on the ditch located 122 feet to the north shown as B on the location drawing

No surface occupancy or construction within 0.25 mile of any active bald eagle winter night roost site, where there is no direct line of sight to the roost, between December 1 and February 28 and within 0.5 mile of any active bald eagle winter night roost site, where there is a direct line of sight to the roost, between December 1 and February 28.

•Within 0.5 mile of any active bald eagle winter roost site from November 15 to March 15, periodic visits such as maintenance and monitoring should be restricted to the period between 10:00 a.m. and 2:00 p.m. Minor workover or swabbing to improve production that could be completed within a 2-day time frame would be allowed.

•If a closed loop system is not used, the reserve pit must be sucked dry immediately following drilling and completion activities, or the pit must be netted until fluids evaporate and the pit solids are reclaimed. After drilling and completion, all produced fluids will be contained in tanks.

Attachment Check List

| Att Doc Num | Name |
|-------------|-----------------------|
| 1642019 | CORRESPONDENCE |
| 1642021 | SURFACE OWNER CONSENT |
| 2613251 | CORRESPONDENCE |
| 2613253 | CORRESPONDENCE |
| 400057754 | FORM 2A APPROVED |
| 400082460 | LOCATION PICTURES |
| 400082461 | LOCATION DRAWING |
| 400082462 | HYDROLOGY MAP |
| 400082463 | ACCESS ROAD MAP |
| 400082464 | MULTI-WELL PLAN |
| 400082465 | NRCS MAP UNIT DESC |
| 400082466 | PROPOSED BMPs |
| 400104017 | FORM 2A SUBMITTED |

Total Attach: 13 Files

General Comments

| <u>User Group</u> | <u>Comment</u> | <u>Comment Date</u> |
|--------------------------|---|----------------------------|
| OGLA | Changed construction start date and interim reclamation begin date per operator's direction to conform with CDOW wildlife COAs. Attached surface owners consent of CDOW's wildlife COAs | 10/25/2010 3:43:09 PM |
| OGLA | Placed ON HOLD waiting on surface owner consent of wildlife COAs. | 9/29/2010 9:13:21 AM |
| OGLA | attached operator acceptance of CDOW COA email. emailed M. Clark of Noble request for NOble to get surface owner acceptance. Spoke to Celia regarding the location of the wildlife coa's. | 8/25/2010 7:47:12 AM |
| OGLA | <p>CDOW proposed wildlife COA, email dated 8/24</p> <p>Dear Ms Clark,</p> <p>The above well location falls within a sensitive wildlife habitat for bald eagle roost. DOW proposes the following conditions of approval:</p> <ul style="list-style-type: none"> •No surface occupancy or construction within 0.25 mile of any active bald eagle winter night roost site, where there is no direct line of sight to the roost, between December 1 and February 28 and within 0.5 mile of any active bald eagle winter night roost site, where there is a direct line of sight to the roost, between December 1 and February 28. •Within 0.5 mile of any active bald eagle winter roost site from November 15 to March 15, periodic visits such as maintenance and monitoring should be restricted to the period between 10:00 a.m. and 2:00 p.m. Minor workover or swabbing to improve production that could be completed within a 2-day time frame would be allowed. •If a closed loop system is not used, the reserve pit must be sucked dry immediately following drilling and completion activities, or the pit must be netted until fluids evaporate and the pit solids are reclaimed. After drilling and completion, all produced fluids will be contained in tanks. <p>Please contact me with any comments.</p> <p>Thank you.</p> <p>Celia Greenman</p> | 8/24/2010 12:30:37 PM |
| OGLA | attach operator approval of COGCC COAs, add 3 COAs | 8/24/2010 12:29:32 PM |
| Permit | Opr corrected. sf | 8/17/2010 10:38:28 AM |
| Permit | Location within a SWH but not designed on the application, back to draft 8/10 kk | 8/10/2010 4:16:44 PM |

Total: 7 comment(s)

BMP

| <u>Type</u> | <u>Comment</u> |
|--------------------|-----------------------|
| | |

Total: 0 comment(s)