

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



DE	ET	OE	ES
----	----	----	----

Document Number:  
400057755

## 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:

**420042**

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 TANK

County: WELD

QuarterQuarter: NESE Section: 8 Township: 4N Range: 66W Meridian: 6 Ground Elevation: 4698

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: 1500 feet FSL, from North or South section line, and 1280 feet FEL, from East or West section line.

Latitude: 40.322910 Longitude: -104.796960 PDOP Reading: 1.4 Date of Measurement: 03/01/2010

Instrument Operator's Name: Steven A. Lund

### 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="0"/>	Production Pits: <input type="text"/>	Dehydrator Units: <input type="text"/>
Condensate Tanks: <input type="text"/>	Water Tanks: <input type="text"/>	Separators: <input type="text" value="6"/>	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"/>	Pump Jacks: <input type="text"/>	Pigging Station: <input type="text"/>
Electric Generators: <input type="text"/>	Gas Pipeline: <input type="text" value="6"/>	Oil Pipeline: <input type="text"/>	Water Pipeline: <input type="text"/>	Flare: <input type="text"/>
Gas Compressors: <input type="text"/>	VOC Combustor: <input type="text" value="4"/>	Oil Tanks: <input type="text" value="6"/>	Fuel Tanks: <input type="text"/>	

Other: 6 3 PHASE FLOW LINES, 6 BURIED CEMENT PRODUCED H2O VAULTS, 6 EFM. SEE COMMENTS FOR WELL 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: 3.00  
Estimated post-construction ground elevation: 4698 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 Phone: \_\_\_\_\_  
Address: C/O BILLY SCHMITZ Fax: \_\_\_\_\_  
Address: 3855 PRECISION DR 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: 1280, above ground utilit: 114  
, railroad: 3800, property line: 250

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: 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: 131, water well: 765, depth to ground water: 4

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 #25140 USED FOR STATIC H2O LEVEL. NEAREST SURFACE WATER IS DITCH TO THE SOUTH. NEAREST BUILDING IS GREATER THAN 1 MILE. EXISTING WELLS = MONFORT GILCREST K8-16, K18-14, K8-10, & K8-9. ASSOCIATED NEW WELLS = FIVE RIVERS K17-27, K08-24D, K09-33D, K16-30D & K08-23. EXISTING WELLS HAVE 2 OIL TANKS, 2 SEPARATORS, 2 H2O VAULTS, 2 3 PHASE FLOW LINES & 2 GAS PIPELINES. FIVE RIVERS K08-23 WILL BE CO-MINGLED WITH EXISTING WELLS. THE NEW WELLS WILL REQUIRE 4 NEW OIL TANKS, 4 NEW SEPERATORS, 4 NEW VAULTS, 4 NEW 3 PHASE FLOW LINES, 4 NEW EFM & 4 NEW GAS PIPELINES FOR THE TOTAL ON SECTION #3 FACILITIES.

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

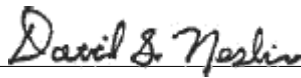
Signed: \_\_\_\_\_ Date: 08/09/2010 Email: mclark@nobleenergyinc.com

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: \_\_\_\_\_



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 site-specific best management practices in accordance with good engineering practices, including, but not limited to, construction of a berm or diversion dike, site grading, or other comparable measures, sufficient to protect the irrigation ditch located 131 feet south of the tank battery location from a release of drilling, completion, produced fluids, and chemical products.

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, routine visits by pumpers and tankers should be restricted to the period between 10:00 a.m. and 2:00 p.m. If possible, remote monitoring of tank levels should be employed to reduce site visits.

**Attachment Check List**

Att Doc Num	Name
1641981	CORRESPONDENCE
1642020	CORRESPONDENCE
1642022	SURFACE OWNER CONSENT
400057755	FORM 2A APPROVED
400082467	LOCATION PICTURES
400082468	LOCATION DRAWING
400082469	HYDROLOGY MAP
400082470	ACCESS ROAD MAP
400082471	NRCS MAP UNIT DESC
400082472	PROPOSED BMPs
400104015	FORM 2A SUBMITTED

Total Attach: 11 Files

**General Comments**

<u>User Group</u>	<u>Comment</u>	<u>Comment Date</u>
OGLA	Changed construction start date and interim reclamation begin date at operator's direction to conform with CDOW wildlife COAs. Added surface owner consent attachment of CDOW's wildlife COAs.	10/25/2010 3:52:20 PM
OGLA	Placed on HOLD while waiting on surface owner concurrence of CDOW COAs.	10/1/2010 8:29:54 AM
OGLA	Requested confirmation of footage from South section line. Operator (M. Clark) indicated it was incorrect. Changed to 1,500 feet. Changed count of wells in Facilities section, added instrument operator's name, and added one COA.	9/20/2010 9:03:14 AM
Permit	came back in / resubmitted: swb box checked off	9/10/2010 3:35:27 PM
Permit	Location within SWH but not designed on the application, back to draft 8/10 kk	8/10/2010 4:14:59 PM

Total: 5 comment(s)

**BMP**

<u>Type</u>	<u>Comment</u>

Total: 0 comment(s)