

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:

400011291

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:

415095

Expiration Date:

12/29/2012☒ 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: LINDA PAVELKA

Phone: (303) 228-4064

Fax: (303) 228-4286

email: lpavelka@nobleenergyinc.com

4. Location Identification:

Name: DOGHEAD Number: 19-33C(19I Pad)

County: GARFIELD

QuarterQuarter: NESE Section: 19 Township: 7S Range: 94W Meridian: 6 Ground Elevation: 8085

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: 1725 feet, from North or South section line: FSL and 326 feet, from East or West section line: FEL

Latitude: 39.421977 Longitude: -107.920622 PDOP Reading: 2.7 Date of Measurement: 09/17/2008

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="13"/> | 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="13"/> | Electric Motors: <input type="text" value="1"/> | Multi-Well Pits: <input type="text"/> |
| Gas or Diesel Motors: <input type="text" value="2"/> | 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="6"/> | Fuel Tanks: <input type="text"/> | |

Other: _____

6. Construction:

Date planned to commence construction: 09/01/2010 Size of disturbed area during construction in acres: 5.00
Estimated date that interim reclamation will begin: 09/01/2011 Size of location after interim reclamation in acres: 2.00
Estimated post-construction ground elevation: 8080 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: EVAP. PIT

7. Surface Owner:

Name: _____ Phone: _____
Address: _____ Fax: _____
Address: _____ Email: _____
City: _____ State: _____ Zip: _____ Date of Rule 306 surface owner consultation: _____
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 executor 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: 1901, public road: 9240, above ground utilit: 1901
_____, railroad: 25291, property line: 334

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: SOILS NOT MAPPED

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: 05/26/2007

List individual species: Aspen, serviceberry, cottonwood.

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): _____

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: 1687, depth to ground water: 93

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 NO. 230057, RECEIPT #0466523, THIRD CLOSEST WATERWELL WITH AVAILABLE GROUNDWATER DEPTH DATA.

NEPA DOCUMENT ON FILE WITH THE BLM.

THIS WELL PAD HAS 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: 11/10/2009 Email: lpavelka@nobleenergyinc.com

Print Name: LINDA PAVELKA Title: REGULATORY MANAGER

Based on the information provided herein, this Application for Permit-to-Drill complies with COGCC Rules and applicable orders and is hereby approved.

David S. Nashin

COGCC Approved: _____

Director of COGCC

Date: 12/30/2009

OIL AND GAS LOCATION ASSESSMENT (OGLA) Project Rulison Conditions of Approval (COAs): (14) COMPLY WITH ALL DOE OFFICE OF LEGACY MANAGEMENT REQUESTS FOR SAMPLING AND ANALYSIS OF NATURAL GAS AND OTHER MATERIALS ASSOCIATED WITH DRILLING AND PRODUCTION. (23) OPERATOR MUST ENSURE 150 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. (25C) 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. (28) ALL MATERIALS REMOVED FOR SETTING THE CONDUCTOR OR FOR ANY OTHER EXCAVATION ON THIS SITE MUST BE SCREENED FOR GAMMA EMITTERS. IF ANY GAMMA EMITTER DETECTION ABOVE BACKGROUND IS ENCOUNTERED, THE OPERATOR MUST ISOLATE THE MATERIALS AND CONTACT COGCC, CDPHE, AND DOE FOR FURTHER INSTRUCTIONS. (31) 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. (32) 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. (33) 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. (34) 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. (35) 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. (37) PIT CONSTRUCTION SHALL COMPLY WITH THE RESERVE PIT AND LINER DESIGN TECHNICAL SPECIFICATIONS, DATED JULY 2008. (38) 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. (39) 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. THE PROPOSED SURFACE CASING IS MORE THAN 50' BELOW THE DEPTH OF THE DEEPEST WATER WELL WITHIN 1 MILE OF THE SURFACE LOCATION WHEN CORRECTED FOR ELEVATION DIFFERENCES. THE DEEPEST WATER WELL WITHIN 1 MILE IS 250 FEET DEEP. WATER WELLS WITHIN ONE (1) MILE OF ALL LOCATIONS MUST BE CHECKED. (Rule 321) THE OPERATOR SHALL COMPLY WITH RULE 321. AND IT SHALL BE THE OPERATOR'S RESPONSIBILITY TO ENSURE THAT THE WELLBORE COMPLIES WITH SETBACK REQUIREMENTS IN COMMISSION ORDERS OR RULES PRIOR TO PRODUCING THE WELL.

Attachment Check List

| Att Doc Num | Name | Doc Description |
|-------------|-------------------------|----------------------|
| 400012862 | ACCESS ROAD MAP | LF@2178920 400012862 |
| 400012863 | MULTI-WELL PLAN | LF@2178921 400012863 |
| 400012864 | LOCATION PICTURES | LF@2178922 400012864 |
| 400012865 | HYDROLOGY MAP | LF@2178923 400012865 |
| 400012866 | REFERENCE AREA MAP | LF@2178924 400012866 |
| 400012867 | REFERENCE AREA PICTURES | LF@2178925 400012867 |
| 400012868 | CONST. LAYOUT DRAWINGS | LF@2178926 400012868 |
| 400014629 | PROPOSED BMPs | LF@2178927 400014629 |
| 400014866 | LOCATION DRAWING | LF@2178928 400014866 |
| 400014867 | FORM 2A SUBMITTED | LF@2178929 400014867 |

Total Attach: 10 Files