

**FORM  
2A**Rev  
04/01**State of Colorado  
Oil and Gas Conservation Commission**

1120 Lincoln Street, Suite 801, Denver, Colorado 80203 Phone: (303) 894-2100 Fax: (303) 894-2109



Document Number:

400394907

Date Received:

03/22/2013

**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:

**432988**

Expiration Date:

**05/18/2016**☒ 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: 10311

Name: SYNERGY RESOURCES CORPORATION

Address: 20203 HIGHWAY 60

City: PLATTEVILLE State: CO Zip: 80651

**3. Contact Information**

Name: Brianne Visconti

Phone: (970) 737-1073

Fax: (970) 737-1045

email: bvisconti@syrginfo.com

**4. Location Identification:**

Name: Union Number: 11-5D

County: WELD

QuarterQuarter: SWNW Section: 5 Township: 2N Range: 68W Meridian: 6 Ground Elevation: 4964

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: 1662 feet FNL, from North or South section line, and 406 feet FWL, from East or West section line.

Latitude: 40.170211 Longitude: -105.035003 PDOP Reading: 0.7 Date of Measurement: 11/28/2012

Instrument Operator's Name: Aaron Demo

**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="10"/>	Production Pits: <input type="text"/>	Dehydrator Units: <input type="text"/>
Condensate Tanks: <input type="text" value="22"/>	Water Tanks: <input type="text" value="11"/>	Separators: <input type="text" value="10"/>	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="1"/>	Oil Pipeline: <input type="text"/>	Water Pipeline: <input type="text"/>	Flare: <input type="text"/>
Gas Compressors: <input type="text" value="2"/>	VOC Combustor: <input type="text" value="12"/>	Oil Tanks: <input type="text"/>	Fuel Tanks: <input type="text"/>	
Other: _____				

**6. Construction:**

Date planned to commence construction: 12/01/2013 Size of disturbed area during construction in acres: 4.22  
Estimated date that interim reclamation will begin: 03/01/2014 Size of location after interim reclamation in acres: 2.78  
Estimated post-construction ground elevation: 4960 Will a closed loop system be used for drilling fluids: Yes ☐ No ☒  
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: 01/17/2013  
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 \_\_\_\_\_

## 8. Reclamation Financial Assurance:

☒ Well Surety ID: 20090043 ☐ 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: 1283, public road: 582, above ground utility: 2342,  
railroad: 487, property line: 268

## 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: Heldt silty clay, 1 to 3 percent slope Map Unit Symbol 27

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: 900, water well: 1000, depth to ground water: 27  
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:

Location has been approved by the Town of Firestone via a special use permit.

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

Signed: \_\_\_\_\_ Date: 03/22/2013 Email: bvisconti@syrinfo.com

Print Name: Craig Rasmuson Title: VP Operations

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: Matthew Lee Director of COGCC Date: 5/19/2013

**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.

**Attachment Check List**

Att Doc Num	Name
400394907	FORM 2A SUBMITTED
400394918	MULTI-WELL PLAN
400394919	ACCESS ROAD MAP
400394920	HYDROLOGY MAP
400394921	LOCATION DRAWING
400394922	LOCATION PICTURES
400394923	OTHER
400394924	NRCS MAP UNIT DESC
400394927	30 DAY NOTICE LETTER
400394928	WASTE MANAGEMENT PLAN
400394929	EXCEPTION LOC REQUEST
400394930	EXCEPTION LOC WAIVERS
400394931	SURFACE AGRMT/SURETY

Total Attach: 13 Files

**General Comments**

<b><u>User Group</u></b>	<b><u>Comment</u></b>	<b><u>Comment Date</u></b>
Permit	Final Review Completed. LGD comment addressed (see comments on form 2A); no public comment received.	5/17/2013 11:13:49 AM
OGLA	Synergy Resources Corporation has acknowledged the comments presented by the City of Longmont. Synergy has agreed to execute an Access Easement with the City of Longmont prior to drilling operations.	5/16/2013 3:33:04 PM
LGD	<p>1. Article 16 of the City of Longmont Charter prohibits the use hydraulic fracturing to extract oil, gas, or other hydrocarbons within the City of Longmont. Any bottom hole locations within the City of Longmont will be subject to Article 16 of the City's Charter. The City of Longmont requests that Synergy defer any drilling and hydraulic fracturing on the three bottom hole locations that are within the City of Longmont municipal limits – wells SRC Union 5FD, 11-5D, and 5JD until COGA's challenges to Article 16 are resolved.</p> <p>2. The proposed access for the Union 11-5D location will cross City of Longmont property. Synergy will need to coordinate with the City to cross City property and obtain an access permit to WCR 26. The City also requests that Synergy provide a transportation impact analysis for the Union 11-5D location.</p> <p>3. Given the Union 11-5D location proximity to Union Reservoir, the City of Longmont requests that Synergy implement ground water quality testing and monitoring similar to the program the City has outlined in our regulations.</p> <p>4. The proposed disturbed area for the Union 11-5D location appears to be close to City of Longmont property. The City requests that Synergy's well pad location map show property boundaries to verify that none of the well pad disturbed area will occur on City property. The City also requests that Synergy ensure that the disturbed area has an adequate storm water management plan to prevent impacts to the adjacent City property.</p>	4/25/2013 4:39:34 PM
OGLA	Extended public and LGD comment period 10 days to April 25, 2013, per request from Longmont LGD.	4/15/2013 11:18:25 AM
LGD	The City of Longmont requests that the comment period on this application be extended to 30 days.	4/12/2013 2:03:09 PM
Permit	Added doc #'s to related forms. Checked surface owner is the mineral owner and is committed to an O&G Lease and is the executer of an O&G lease per operator. ok to pass.	4/5/2013 10:35:55 AM
OGLA	Requesting disturbance area confirmation.	3/26/2013 11:42:02 AM

Total: 7 comment(s)

**BMP**

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