

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:

400188157

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:

425853

Expiration Date:

10/15/2014
☒ 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: Kori Thoren

Phone: (970) 737-1073

Fax: (970) 737-1045

email: kthoren@syrinfo.com

4. Location Identification:

Name: SRC Aims Number: 43-10D

County: WELD

QuarterQuarter: NESE Section: 10 Township: 5N Range: 66W Meridian: 6 Ground Elevation: 4858

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: 2451 feet FSL, from North or South section line, and 795 feet FEL, from East or West section line.

Latitude: 40.413620 Longitude: -104.759150 PDOP Reading: 1.9 Date of Measurement: 09/14/2011

Instrument Operator's Name: Michael Dilka

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="15"/>	Production Pits: <input type="text"/>	Dehydrator Units: <input type="text"/>
Condensate Tanks: <input type="text" value="8"/>	Water Tanks: <input type="text" value="5"/>	Separators: <input type="text" value="15"/>	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" value="4"/>
Gas Compressors: <input type="text"/>	VOC Combustor: <input type="text" value="6"/>	Oil Tanks: <input type="text"/>	Fuel Tanks: <input type="text"/>	

Other: _____

6. Construction:

Date planned to commence construction: 10/15/2011 Size of disturbed area during construction in acres: 3.96
 Estimated date that interim reclamation will begin: 01/15/2012 Size of location after interim reclamation in acres: 2.18
 Estimated post-construction ground elevation: 4858 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: _____ Phone: _____
 Address: _____ Fax: _____
 Address: _____ Email: _____
 City: _____ State: _____ Zip: _____ Date of Rule 306 surface owner consultation: 07/06/2011
 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: 350 , public road: 397 , above ground utilit: 171
 , railroad: 5280 , property line: 181

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: 51 - Otero sandy loam, 1 to 3 percent slopes

NRCS Map Unit Name: 52 - Otero sandy loam, 3 to 5 percent slopes

NRCS Map Unit Name: 53 - Otero sandy loam, 5 to 9 percent slopes

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: 383, water well: 2240, depth to ground water: 29

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:

All eleven (11) wells on this drilling pad are closer to the over-head power line than the COGCC regulations allow. As per numerous conversations with Thom Kerr - the COGCC has verbally agreed that Ensign Rig 33 - 104' tall - can drill these locations. Aims Community College sold the property to a third party (WTM Land, LLC) with the full intent to have their minerals, Greeley Country Club's minerals and the surrounding residential lots drilled and production of oil and gas maximized.

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

Signed: _____ Date: 07/22/2011 Email: crasmuson@syrinfo.com

Print Name: Craig Rasmuson Title: Mgr. of Land & Field Ops

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: 10/16/2011

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
1564256	EXCEPTION LOC WAIVERS
1694254	LEGAL/LEASE DESCRIPTION
1694255	EXCEPTION LOC REQUEST
1694315	VARIANCE REQUEST
1694316	ACCESS ROAD MAP
1694317	CORRESPONDENCE
1694318	HYDROLOGY MAP
1694319	LOCATION PICTURES
1694320	LOCATION DRAWING
1694321	TOPO MAP
1694322	WELL LOCATION PLAT
1694334	MULTI-WELL PLAN
1694429	MULTI-WELL PLAN
1694430	LOCATION DRAWING
1694431	WELL LOCATION PLAT
1694473	LOCATION DRAWING
400188157	FORM 2A SUBMITTED
400188200	MULTI-WELL PLAN
400188207	ACCESS ROAD MAP
400188211	HYDROLOGY MAP
400188212	LOCATION DRAWING
400188213	LOCATION PICTURES
400188214	TOPO MAP
400188215	WELL LOCATION PLAT
400188216	OIL & GAS LEASE
400188217	NRCS MAP UNIT DESC
400188219	NRCS MAP UNIT DESC
400188221	NRCS MAP UNIT DESC
400188226	OTHER
400190311	SURFACE AGRMT/SURETY

Total Attach: 30 Files

General Comments

<u>User Group</u>	<u>Comment</u>	<u>Comment Date</u>
Permit	Final Review Completed. No LGD or public comment received.	10/13/2011 9:22:00 AM
Permit	Received and attached corrected location drawing. Changed Surface Loc to: 2451' FSL 795' FEL, Lat : 40.41362, Long : 104.75915, PDOP : 1.5, Nearest : Building - 350', Public Road - 397', Above GND Utility - 171', Railroad - 5280', Property Line - 181'.	10/6/2011 2:44:19 PM
OGLA	Sound and light mitigation, traffic control, vehicle mud tracking issues have been considered by the Operator and are detailed in the USR negotiated with Weld County. Aims Community College has provided input to limit heavy truck traffic. OK to pass.	10/4/2011 4:37:10 PM
Permit	Operator moved surface location and submitted corrected location drawing, multi-well plan, well location plat. Corrected the following: * Location Latitude - 40.413621 / Longitude - 104.75915 * Footage for location is 2451 FSL and 795' FEL * PDOP = 1.9 * Date of Measurement 9-14-11 * Ground Elevation = 4858' * Condensate Tanks = 15 * Wells = 15 (11 to be permitted present) * Separators = 15 * Water Tanks = 5 * VOC Combuster = 6 * Gas Pipeline = 1 Requesting: size of the disturbed area, start date 10/15/11, new distances to: building, public road, above ground utility, railroad, property line.	9/22/2011 1:21:24 PM
Permit	ON HOLD: Operator plans to move well pad. w/o updated documents.	8/30/2011 11:55:50 AM
Permit	Operator moved surface location and submitted corrected location drawing, hydrology map, access map, topo, location pics. Corrected the following: 4. Location Footage at Surface - 2472 feet FSL and 794 feet FEL, Latitude - 40.41367 Longitude - 104.75914, PDOP Reading - 2.9 Date - 8/15/2011. 5. Facilities, 8 Condensate Tanks, 8 Separators. 9. Cultural, Nearest Building - 347, Public Road - 416, Above Ground Utility - 150, Railroad - 5280, Property Line - 160.	8/23/2011 9:14:31 AM
Permit	ON HOLD: Rig Height 104'. Requesting a 502.b. variance letter for 4 wells. Attached lease map and corrected Exception Loc Request & waivers.	3/4/2011 9:53:23 AM
Permit	Requesting rig height, corrected Exception Loc Request ltr, separate doc for waivers, dollar amount removed from Warranty Deed. confirmation of number of wells.	8/1/2011 11:55:44 AM
Permit	SUA is selected for right to construct but is not attached.	7/25/2011 7:27:21 AM

Total: 9 comment(s)

BMP

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

Total: 0 comment(s)