

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



Table with columns DE, ET, OE, ES

Document Number: 400138386

Oil and Gas Location Assessment

New Location Amend Existing Location Location#: 319098

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...

Location ID: 319098 Expiration Date: 03/23/2014

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: Rhonda Sandquist Phone: (970) 737-1073 Fax: (970) 737-1045 email: rsandquist@syrginfo.com

4. Location Identification:

Name: SRC Pratt Number: 41-29D County: WELD Quarter: SENE Section: 29 Township: 1N Range: 68W Meridian: 6 Ground Elevation: 5216 Define a single point as a location reference for the facility location... Footage at surface: 1586 feet FNL, from North or South section line, and 1060 feet FEL, from East or West section line. Latitude: 40.024960 Longitude: -105.022025 PDOP Reading: 2.2 Date of Measurement: 12/22/2010 Instrument Operator's Name: Mark Hall

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

Special Purpose Pits: 0 Drilling Pits: 0 Wells: 8 Production Pits: 0 Dehydrator Units: 0 Condensate Tanks: 0 Water Tanks: 3 Separators: 8 Electric Motors: 0 Multi-Well Pits: 0 Gas or Diesel Motors: 0 Cavity Pumps: 0 LACT Unit: 0 Pump Jacks: 0 Pigging Station: 0 Electric Generators: 0 Gas Pipeline: 1 Oil Pipeline: 0 Water Pipeline: 0 Flare: 3 Gas Compressors: 0 VOC Combustor: 0 Oil Tanks: 8 Fuel Tanks: 0 Other: 0

6. Construction:

Date planned to commence construction: 04/25/2011 Size of disturbed area during construction in acres: 2.40  
Estimated date that interim reclamation will begin: 08/01/2011 Size of location after interim reclamation in acres: 1.18  
Estimated post-construction ground elevation: 5216 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: 05/17/2010  
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 \_\_\_\_\_

8. Reclamation Financial Assurance:

Well Surety ID: 20090044  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: 1936, public road: 1060, above ground utilit: 1060  
, railroad: 5280, property line: 255

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.

**IMPORTANT: SOME DATA FIELDS HAVE BEEN MODIFIED.**

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: 36 Midway-Shingle complex, 5 to 20 percent slopes / 82 Wiley-Colby complex 1 to 3 percent

NRCS Map Unit Name: 67 Ulm clay loam 3 to 5 percent slopes

NRCS Map Unit Name: 83 Wiley-Colby complex, 3 to 5 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: 2274, water well: 160, depth to ground water: 26

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 Suppl 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:**

Synergy Resources Corporation recently purchased the ME Drier Well from Noble Energy. (Change of Operator is in process) SRC proposes "twinning" the ME Drier Well and drill this quarter section directionally to save the surface for future development. These wells will all be drilled using a pitless system.

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

Signed: \_\_\_\_\_ Date: 03/08/2011 Email: crasmuson@syrginfo.com

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

**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. Nesline*

Director of COGCC

Date: 3/24/2011

**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
2085936	CORRESPONDENCE
400138386	FORM 2A SUBMITTED
400138416	MULTI-WELL PLAN
400139064	ACCESS ROAD MAP
400139065	HYDROLOGY MAP A, TOPO
400139069	LOCATION PICTURES
400139071	LOCATION DRAWING
400139263	OIL & GAS LEASE
400140570	NRCS MAP UNIT DESC
400140571	NRCS MAP UNIT DESC
400140572	NRCS MAP UNIT DESC

Total Attach: 11 Files

**General Comments**

<u>User Group</u>	<u>Comment</u>	<u>Comment Date</u>
Permit	Received 502.b Variance letter. Copy attached to each form 2. plg.	3/24/2011 9:49:43 AM
Permit	On HOLD: Request for 502.b Variance letter requires additional information. plg.	3/17/2011 11:02:59 AM

Total: 2 comment(s)

**BMP**

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

Total: 0 comment(s)