

FORM
2A

Rev
08/13

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:

400541155

Date Received:

01/24/2014

Oil and Gas Location Assessment

New Location Refile Amend Existing Location Location#: _____

Submit signed original form. This Oil and Gas Location Assessment is to be submitted to the COGCC for approval prior to any ground disturbance activity associated with oil and gas operations. Approval of this Oil and Gas Location 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. Please see the COGCC website at <http://cogcc.state.co.us/> for all accompanying information pertinent this Oil and Gas Location Assessment.

Location ID:

436310

Expiration Date:

03/02/2017

This location assessment is included as part of a permit application.

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.

Operator

Operator Number: 10311

Name: SYNERGY RESOURCES CORPORATION

Address: 20203 HIGHWAY 60

City: PLATTEVILLE State: CO Zip: 80651

Contact Information

Name: Brianne Visconti

Phone: (970) 737-1073

Fax: (970) 737-1045

email: bvisconti@syrginfo.com

RECLAMATION FINANCIAL ASSURANCE

Plugging and Abandonment Bond Surety ID: 20090043

Gas Facility Surety ID: _____

Waste Management Surety ID: _____

LOCATION IDENTIFICATION

Name: Hawkstone

Number: 29-30DD

County: WELD

Quarter: SWSW Section: 29 Township: 7N Range: 65W Meridian: 6 Ground Elevation: 4882

Define a single point as a location reference for the facility location. When the location is to be used as a well site then the point shall be a well location.

Footage at surface: 684 feet FSL from North or South section line

240 feet FWL from East or West section line

Latitude: 40.540614 Longitude: -104.695791

PDOP Reading: 1.4 Date of Measurement: 12/09/2013

Instrument Operator's Name: Aaron A. Demo

RELATED REMOTE LOCATIONS

(Enter as many Related Locations as necessary. Enter the Form 2A document # only if there is no established COGCC Location ID#)

This proposed Oil and Gas Location is:

LOCATION ID # FORM 2A DOC #



FACILITIES

Indicate the number of each type of oil and gas facility planned on location

Wells	<u>1</u>	Oil Tanks	<u> </u>	Condensate Tanks	<u>1</u>	Water Tanks	<u>1</u>	Buried Produced Water Vaults	<u> </u>
Drilling Pits	<u> </u>	Production Pits	<u> </u>	Special Purpose Pits	<u> </u>	Multi-Well Pits	<u> </u>	Temporary Large Volume Above Ground Tanks	<u> </u>
Pump Jacks	<u> </u>	Separators	<u>1</u>	Injection Pumps	<u> </u>	Cavity Pumps	<u> </u>		
Gas or Diesel Motors	<u> </u>	Electric Motors	<u> </u>	Electric Generators	<u> </u>	Fuel Tanks	<u> </u>	Gas Compressors	<u> </u>
Dehydrator Units	<u> </u>	Vapor Recovery Unit	<u> </u>	VOC Combustor	<u> </u>	Flare	<u> </u>	LACT Unit	<u> </u>
								Pigging Station	<u> </u>

OTHER FACILITIES

Other Facility Type

Number

<u>Other Facility Type</u>	<u>Number</u>

Per Rule 303.b.(3)C, description of all oil, gas, and/or water pipelines:

2-inch steel wrapped & coated flowline from wellhead to separator
3-inch steel wrapped & coated oil dumpline from separator to tanks

CONSTRUCTION

Date planned to commence construction: 03/01/2014 Size of disturbed area during construction in acres: 2.40
Estimated date that interim reclamation will begin: 05/01/2014 Size of location after interim reclamation in acres: 1.10
Estimated post-construction ground elevation: 4883

DRILLING PROGRAM

Will a closed loop system be used for drilling fluids: Yes

Is H₂S anticipated? No

Will salt sections be encountered during drilling: No

Will salt based mud (>15,000 ppm Cl) be used? No

Will oil based drilling fluids be used? No

DRILLING WASTE MANAGEMENT PROGRAM

Drilling Fluids Disposal: OFFSITE Drilling Fluids Disposal Method: Other

Cutting Disposal: OFFSITE Cuttings Disposal Method: Other

Other Disposal Description:

Land Farming

Beneficial reuse or land application plan submitted? No

Reuse Facility ID: or Document Number:

Centralized E&P Waste Management Facility ID, if applicable:

SURFACE & MINERALS & RIGHT TO CONSTRUCT

Name: Donaldson Investments LLC Phone:

Address: 3384 E. Mulberry St.

Fax: _____

Address: _____

Email: _____

City: Fort Collins State: CO Zip: 80524

Surface Owner: Fee State Federal Indian

Check all that apply. The Surface Owner: is the mineral owner
 is committed to an oil and Gas Lease
 has signed the Oil and Gas Lease
 is the applicant

The Mineral Owner beneath this Oil and Gas Location is: Fee State Federal Indian

The Minerals beneath this Oil and Gas Location will be developed from or produced to this Oil and Gas Location: No

The right to construct this Oil and Gas Location is granted by: Surface Use Agreement

Surface damage assurance if no agreement is in place: _____ Surface Surety ID: _____

Date of Rule 306 surface owner consultation 12/24/2013

CURRENT AND FUTURE LAND USE

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

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

CULTURAL DISTANCE INFORMATION

Distance to nearest:

Building: 397 Feet
Building Unit: 501 Feet
High Occupancy Building Unit: 3135 Feet
Designated Outside Activity Area: 5280 Feet
Public Road: 211 Feet
Above Ground Utility: 251 Feet
Railroad: 5145 Feet
Property Line: 211 Feet

INSTRUCTIONS:

- All measurements shall be provided from center of nearest Well or edge of nearest Production Facility to nearest of each cultural feature as described in Rule 303.b.(3)A.
- Enter 5280 for distance greater than 1 mile.
- Building - nearest building of any type. If nearest Building is a Building Unit, enter same distance for both.
- Building Unit, High Occupancy Building Unit, and Designated Outside Activity Area - as defined in 100-Series Rules.

DESIGNATED SETBACK LOCATION INFORMATION

Check all that apply. This location is within a: Buffer Zone
 Exception Zone
 Urban Mitigation Area

- Buffer Zone - as described in Rule 604.a.(2), within 1,000' of a Building Unit.
- Exception Zone - as described in Rule 604.a.(1), within 500' of a Building Unit.
- Urban Mitigation Area - as defined in 100-Series Rules.

Pre-application Notifications (required if location is within 1,000 feet of a building unit):

Date of Rule 305.a.(1) Urban Mitigation Area Notification to Local Government: 02/14/2014

Date of Rule 305.a.(2) Buffer Zone Notification to Building Unit Owners: 12/24/2013

SOIL

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.

The required information can be obtained from the NRCS web site at <http://soildatamart.nrcs.usda.org/> 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: Map unit symbol 32; Kim Loam, 1 to 3 percent slopes

NRCS Map Unit Name: _____

NRCS Map Unit Name: _____

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): _____

WATER RESOURCES

Is this a sensitive area: No Yes

Distance to nearest

downgradient surface water feature: 674 Feet

water well: 802 Feet

Estimated depth to ground water at Oil and Gas Location 7 Feet

Basis for depth to groundwater and sensitive area determination:

Water Well Permit #8521-R

Is the location in a riparian area: No Yes

Was an Army Corps of Engineers Section 404 permit filed No Yes If yes attach permit.

Is the location within a Rule 317B Surface Water Supply Area buffer No 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: _____

GROUNDWATER BASELINE SAMPLING AND MONITORING AND WATER WELL SAMPLING

Water well sampling required per Rule 318A

DESIGNATED SETBACK LOCATION EXCEPTIONS

Check all that apply:

- Rule 604.a.(1)A. Exception Zone (within 500' of Building Unit)
- Rule 604.b.(1)A. Exception Location (existing or approved Oil & Gas Location now within a Designated Setback as a result of Rule 604.a.)
- Rule 604.b.(1)B. Exception Location (existing or approved Oil & Gas Location is within a Designated Setback due to Building Unit construction after Location approval)
- Rule 604.b.(2) Exception Location (SUA or site-specific development plan executed on or before August 1, 2013)
- Rule 604.b.(3) Exception Location (Building Units constructed after August 1, 2013 within setback per an SUA or site-specific development plan)

RULE 502.b VARIANCE REQUEST

- Rule 502.b. Variance Request from COGCC Rule or Spacing Order Number _____

ALL exceptions and variances require attached Request Letter(s). Refer to applicable rule for additional required attachments (e.g. waivers, certifications, SUAs).

OPERATOR COMMENTS AND SUBMITTAL

Comments

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

Signed: _____ Date: 01/24/2014 Email: bvisconti@syrginfo.com

Print Name: Brianne Visconti Title: _____

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: 3/3/2014

Conditions Of Approval

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.

<u>COA Type</u>	<u>Description</u>

Best Management Practices

<u>No</u>	<u>BMP/COA Type</u>	<u>Description</u>
1	General Housekeeping	We will have a full time crew on call for road clean-up if the location is wet and we track mud onto the local hard top roads.
2	Dust control	We will require our third party completions contractor to utilize the Sierra equipped sand movers to contain al Silicate sand on location during the completion process. We will utilize Envirotech Dust abatement product on the road base access road and location in the event that the location or road gets dusty. This will eliminate the dust from traffic completely.
3	Noise mitigation	A twelve foot sound and light temporary mitigation hay bale wall will be installed along the West flank of the location. We will utilize Ensign Rig 122, an Automated Top Drive Rig that does not use the chains and braking of the traditional rigs- so it will considerably cut down on noise during drilling.

Total: 3 comment(s)

Attachment Check List

<u>Att Doc Num</u>	<u>Name</u>
1668089	LOCATION PICTURES
1668117	HYDROLOGY MAP
1668118	LOCATION DRAWING
1668119	FACILITY LAYOUT DRAWING
1668120	WELL LOCATION PLAT
1668131	LGD WAIVER
1668132	RULE 306.E. CERTIFICATION
1668133	CORRESPONDENCE
1668134	BMPs
400541155	FORM 2A SUBMITTED
400541208	OTHER
400541211	ACCESS ROAD MAP
400541213	NRCS MAP UNIT DESC
400541215	OTHER
400541218	WASTE MANAGEMENT PLAN
400544523	EXCEPTION LOC WAIVERS
400544527	MINERAL LEASE MAP
400544698	SURFACE AGRMT/SURETY
400544708	OTHER
400545001	EXCEPTION LOC REQUEST

Total Attach: 20 Files

General Comments

<u>User Group</u>	<u>Comment</u>	<u>Comment Date</u>
Permit	Added Urban Mitigation Area notification to LGD date of 2/14/14 per attached LGD Waiver. Ready to pass.	2/24/2014 2:12:30 PM
OGLA	IN PROCESS - Operator provided new location information and attachments, a pipeline description, a signed waiver from the LGD, a letter certifying compliance with Rule 305.a., 305.c., and 306.e., and a mitigation BMPs. No Public Comments. OGLA task passed.	2/24/2014 8:36:52 AM
OGLA	Operator will move location slightly instead of Withdrawing this 2A. Location will still be in an Urban Mitigation Area but no Building Units will be within 500 feet of the nearest well or production facility now. Changes to Location Identification measurements and Cultural Distances. Requested a pipeline description, change Sensitive Area designation to YES due to shallow groundwater, requested signed waiver from the LGD, a letter certifying compliance with Rule 305.a., 305.c., and 306.e., and mitigation measure BMPs. Due by 3/14/14.	2/13/2014 3:47:03 PM
OGLA	ON HOLD - Upon review location is within an Urban Mitigation Area. Contacted operator to inform them of this and that Form 2A was not prepared correctly for a location in an Urban Mitigation Area. Recommend that this 2A be Withdrawn. Waiting for operator to respond to this recommendation.	2/4/2014 3:57:38 PM
Permit	Passed completeness.	1/27/2014 1:27:06 PM
Permit	Returned to draft: Missing attached Facility Layout Drawing required by 303.b.(3)J.ii.	1/27/2014 11:13:23 AM

Total: 6 comment(s)