

FORM  
2

Rev  
12/05

# State of Colorado Oil and Gas Conservation Commission

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Document Number:

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Date Received:

03/28/2013

PluggingBond SuretyID

20090043

## APPLICATION FOR PERMIT TO:

1.  Drill,  Deepen,  Re-enter,  Recomplete and Operate

### 2. TYPE OF WELL

OIL  GAS  COALBED  OTHER \_\_\_\_\_  
SINGLE ZONE  MULTIPLE  COMMINGLE

Refiling

Sidetrack

3. Name of Operator: SYNERGY RESOURCES CORPORATION

4. COGCC Operator Number: 10311

5. Address: 20203 HIGHWAY 60

City: PLATTEVILLE State: CO Zip: 80651

6. Contact Name: Brianne Visconti Phone: (970)737-1073 Fax: (970)737-1045

Email: bvisconti@syrginfo.com

7. Well Name: SRC Union Well Number: 11HZC

8. Unit Name (if appl): \_\_\_\_\_ Unit Number: \_\_\_\_\_

9. Proposed Total Measured Depth: 12113

## WELL LOCATION INFORMATION

10. QtrQtr: SWNW Sec: 5 Twp: 2N Rng: 68W Meridian: 6

Latitude: 40.170152 Longitude: -105.035203

Footage at Surface: 1683 feet FNL 350 feet FWL

11. Field Name: Wattenberg Field Number: 90750

12. Ground Elevation: 4963 13. County: WELD

### 14. GPS Data:

Date of Measurement: 12/04/2012 PDOP Reading: 0.7 Instrument Operator's Name: Aaron Demo

15. If well is  Directional  Horizontal (highly deviated) **submit deviated drilling plan.**

Footage at Top of Prod Zone: FNL/FSL \_\_\_\_\_ FEL/FWL \_\_\_\_\_ Bottom Hole: FNL/FSL \_\_\_\_\_ FEL/FWL \_\_\_\_\_  
526 FNL 510 FWL 526 FNL 460 FEL  
Sec: 5 Twp: 2N Rng: 68W Sec: 5 Twp: 2N Rng: 68W

16. Is location in a high density area? (Rule 603b)?  Yes  No

17. Distance to the nearest building, public road, above ground utility or railroad: 487 ft

18. Distance to nearest property line: 268 ft 19. Distance to nearest well permitted/completed in the same formation(BHL): 140 ft

## 20. LEASE, SPACING AND POOLING INFORMATION

Objective Formation(s)	Formation Code	Spacing Order Number(s)	Unit Acreage Assigned to Well	Unit Configuration (N/2, SE/4, etc.)
Codell	CODL		320	GWA

21. Mineral Ownership:  Fee  State  Federal  Indian Lease #: \_\_\_\_\_

22. Surface Ownership:  Fee  State  Federal  Indian

23. Is the Surface Owner also the Mineral Owner?  Yes  No Surface Surety ID#: \_\_\_\_\_

23a. If 23 is Yes: Is the Surface Owner(s) signature on the lease?  Yes  No

23b. If 23 is No:  Surface Owners Agreement Attached or  \$25,000 Blanket Surface Bond  \$2,000 Surface Bond  \$5,000 Surface Bond

24. Using standard QtrQtr, Sec, Twp, Rng format enter entire mineral lease description upon which this proposed wellsite is located (attach separate sheet/map if you prefer):

N/2 Section 5, 2N-68W

25. Distance to Nearest Mineral Lease Line: 460 ft 26. Total Acres in Lease: 320

### DRILLING PLANS AND PROCEDURES

27. Is H2S anticipated?  Yes  No If Yes, attach contingency plan.

28. Will salt sections be encountered during drilling?  Yes  No

29. Will salt (>15,000 ppm TDS CL) or oil based muds be used during drilling?  Yes  No

30. If questions 28 or 29 are yes, is this location in a sensitive area (Rule 901.e)?  Yes  No

31. Mud disposal:  Offsite  Onsite

If 28, 29, or 30 are "Yes" a pit permit may be required.

Method:  Land Farming  Land Spreading  Disposal Facility Other: \_\_\_\_\_

Note: The use of an earthen pit for Recompletion fluids requires a pit permit (Rule 905b). If air/gas drilling, notify local fire officials.

Casing Type	Size of Hole	Size of Casing	Wt/Ft	Csg/Liner Top	Setting Depth	Sacks Cmt	Cmt Btm	Cmt Top
SURF	12+1/4	9+5/8	36	0	550	290	550	0
1ST	8+3/4	7	26	0	7,748	125	7,748	6,880
1ST LINER	6+1/8	4+1/2	11.6	6930	12,063			

32. BOP Equipment Type:  Annular Preventer  Double Ram  Rotating Head  None

33. Comments No conductor casing will be used. Operator requests approval of a Rule 318Aa exception location: Wellhead is to be located outside of a GWA drilling window. Request and Waiver attached. Proposed Spacing Unit: N/2.

34. Location ID: \_\_\_\_\_

35. Is this application in a Comprehensive Drilling Plan ?  Yes  No

36. Is this application part of submitted Oil and Gas Location Assessment ?  Yes  No

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

Signed: \_\_\_\_\_ Print Name: Craig Rasmuson

Title: VP Operations Date: 3/28/2013 Email: crasmuson@syrginfo.com

Operator must have a valid water right or permit allowing for industrial use or purchased water from a seller that has a valid water right or permit allowing for industrial use, otherwise an application for a change in type of use is required under Colorado law. Operator must also use the water in the location set forth in the water right decree or well permit, otherwise an application for a change in place of use is required under Colorado law. Section 37-92-103(5), C.R.S. (2011).

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

**API NUMBER**

05 123 37398 00

Permit Number: \_\_\_\_\_ Expiration Date: 5/18/2015

**CONDITIONS OF APPROVAL, IF ANY:**

All representations, stipulations and conditions of approval stated in the Form 2A for this location shall constitute representations, stipulations and conditions of approval for this Form 2 Permit-to-Drill and are enforceable to the same extent as all other representations, stipulations and conditions of approval stated in this Permit-to-Drill.

Operator must meet water well testing requirements per Rule 318A.

- 1) Submit Form 42 electronically to COGCC 48 hours prior to MIRU.
- 2) Comply with Rule 317.i and provide cement coverage from TD to a minimum of 200' above Niobrara. Verify coverage with cement bond log.
- 3) Comply with Rule 321. Run and submit Directional Survey from TD to base of surface casing. Ensure that the wellbore complies with setback requirements in commission orders or rules prior to producing the well.

### **Applicable Policies and Notices to Operators**

Notice Concerning Operating Requirements for Wildlife Protection.

Policy for Bradenhead Monitoring During Hydraulic Fracturing Treatments in the Greater Wattenberg Area.

### **Attachment Check List**

Att Doc Num	Name
1695665	WELL LOCATION PLAT
1695666	VARIANCE REQUEST
1695671	PROPOSED SPACING UNIT
400397110	FORM 2 SUBMITTED
400397116	30 DAY NOTICE LETTER
400397117	EXCEPTION LOC WAIVERS
400397118	EXCEPTION LOC REQUEST
400405251	DEVIATED DRILLING PLAN
400405253	DIRECTIONAL DATA
400405600	OFFSET WELL EVALUATION
400405602	PROPOSED SPACING UNIT
400406530	DIRECTIONAL DATA

Total Attach: 12 Files

**General Comments**

<b>User Group</b>	<b>Comment</b>	<b>Comment Date</b>
Permit	Final Review Completed. LGD comment addressed (see comments on form 2A); no public comment received.	5/17/2013 11:51:01 AM
Permit	Received and attached 30 day certification letter. ok to pass.	5/1/2013 10:38:54 AM
Permit	Received and attached a corrected well location plat & the Rule 318A.m Variance Request letter. Per operator changed distance to nearest well from 1259' to 140'. Added the anti-collision and Bradenhead BMP. ON HOLD: Requesting 30 day certification letter.	4/30/2013 3:28:22 PM
Permit	ON HOLD: Requesting 30 day certification letter and a corrected well location plat. Requesting addition of anti-collision and Bradenhead BMP. Requesting corrected distance to nearest well. Requesting a Rule 318A.m Variance Request letter. Changed Well type from N/A to Horizontal.	4/26/2013 11:11:49 AM
Permit	Operator requests approval of a Rule 318Am exception location: Wellbore is to be located less than 150' from an existing wellbore. Request and waivers attached.	4/26/2013 11:11:48 AM
Permit	Operator requests approval of a Rule 318Aa exception location: Wellhead is to be located outside of a GWA drilling window. Request and Waiver attached.	4/26/2013 11:11:47 AM
Permit	Letter is attached to old map. You must remove the old proposed spacing unit map. Well location plat is still wrong.	4/19/2013 7:34:41 AM
Permit	Pass completeness. Codell portion of wellbore OK.	4/18/2013 9:22:21 AM
Permit	RTD: The proposed spacing unit map, well location plat, and bottom hole setback location on the form is incorrect.	4/17/2013 6:03:07 AM
Permit	RTD; Well is less than 460 feet from unit boundary.	3/29/2013 9:55:34 AM

Total: 10 comment(s)

**BMP**

<b>Type</b>	<b>Comment</b>
Drilling/Completion Operations	Anti-collision: Prior to drilling operations, Operator will perform an anti-collision scan of existing offset wells that have the potential of being within close proximity of the proposed well. This anti-collision scan will include definitive MWD or gyro surveys of the offset wells with included error of uncertainty per survey instrument, and compared against the proposed wellpath with its respective error of uncertainty. If current surveys do not exist for the offset wells, Operator may have gyro surveys conducted to verify bottomhole location. The proposed well will only be drilled if the anti-collision scan results indicate that there is not a risk for collision, or harm to people or the environment. For the proposed well, upon conclusion of drilling operations, an as-constructed gyro survey will be submitted to COGCC with the Form 5.
Drilling/Completion Operations	Operator will comply with COGCC Policy for Bradenhead Monitoring During Hydraulic Fracturing Treatments in the Greater Wattenberg Area dated May 29, 2012. (attached)

Total: 2 comment(s)