

FORM  
2

Rev  
12/05

# State of Colorado Oil and Gas Conservation Commission

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Document Number:

400423928

Date Received:

05/24/2013

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 Leffler Well Number: B-26NBHZ

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

9. Proposed Total Measured Depth: 11908

## WELL LOCATION INFORMATION

10. QtrQtr: NWNW Sec: 26 Twp: 7N Rng: 66W Meridian: 6

Latitude: 40.552883 Longitude: -104.750560

Footage at Surface: 190 feet FNL 1032 feet FWL

11. Field Name: Wattenberg Field Number: 90750

12. Ground Elevation: 4900 13. County: WELD

### 14. GPS Data:

Date of Measurement: 04/11/2013 PDOP Reading: 1.2 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  
460 FNL 1493 FWL 495 FSL 1490 FWL  
Sec: 26 Twp: 7N Rng: 66W Sec: 26 Twp: 7N Rng: 66W

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: 162 ft

18. Distance to nearest property line: 190 ft 19. Distance to nearest well permitted/completed in the same formation(BHL): 275 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.)
NIOBRARA	NBRR		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):

W/2 of Section 26, 7N, 66W

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	540	160	540	0
1ST	8+5/8	7	26	0	7,548	810	7,548	
1ST LINER	6+1/8	4+1/2	11.6	6800	11,908			

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

33. Comments  Conductor casing will not be used.  Operator request an exception location per rule 318 A.a. Request letter and waiver are attached.  Operator requests the proposed spacing unit: W/2 sec 26 7N 66W

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: 5/24/2013 Email: bvisconti@syrinfo.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: 6/21/2013

API NUMBER
05 123 37581 00

Permit Number: \_\_\_\_\_ Expiration Date: 6/20/2015

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.

1)Note surface casing setting depth change from 500' to 540'. Increase cement coverage accordingly and cement to surface.  
 2)Provide notice of MIRU via an electronic Form 42.  
 3)Comply with Rule 317.i and provide cement coverage to a minimum of 200' above the Niobrara. Verify cement coverage with a cement bond log per 317.o.

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

Above ground utility closer than 200'. Rig height cannot exceed 127'.

**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
2114130	OFFSET WELL EVALUATION
2482408	SURFACE CASING CHECK
400423928	FORM 2 SUBMITTED
400423935	DIRECTIONAL DATA
400423936	PROPOSED SPACING UNIT
400423939	PLAT
400423941	DEVIATED DRILLING PLAN
400423943	EXCEPTION LOC REQUEST
400423944	EXCEPTION LOC WAIVERS

Total Attach: 9 Files

**General Comments**

<b><u>User Group</u></b>	<b><u>Comment</u></b>	<b><u>Comment Date</u></b>
Permit	30 day certification letter should say "horizontal well" instead of "boundary well." Changed comment line 33 to describe Proposed Spacing Unit. Attached Offset Well Evaluation spreadsheet. Ready to pass.	6/18/2013 3:14:10 PM
Permit	Closest permitted well in same formation is SRC Leffler 23-26D at 275'. Changed mud disposal to offsite disposal facility to match 2A. All ok'd by operator.	5/4/2013 2:25:47 PM
Engineer	Evaluated offset wells for adequate isolation.	5/30/2013 1:28:31 PM

Total: 3 comment(s)

## BMP

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

Total: 2 comment(s)