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Document Number:  
400188246

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: Kori Thoren Phone: (970)737-1073 Fax: (970)737-1045  
 Email: kthoren@syrginfo.com  
 7. Well Name: SRC GCC Well Number: 42-10D  
 8. Unit Name (if appl): \_\_\_\_\_ Unit Number: \_\_\_\_\_  
 9. Proposed Total Measured Depth: 8032

**WELL LOCATION INFORMATION**

10. QtrQtr: NESE Sec: 10 Twp: 5N Rng: 66W Meridian: 6  
 Latitude: 40.413580 Longitude: -104.759050  
 Footage at Surface: 2437 feet FSL 769 feet FEL  
 11. Field Name: Wattenberg Field Number: 90750  
 12. Ground Elevation: 4858 13. County: WELD

14. GPS Data:  
 Date of Measurement: 09/15/2011 PDOP Reading: 1.7 Instrument Operator's Name: Michael Dilka

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  
2017 FNL 560 FEL 2017 FNL 560 FEL  
 Sec: 10 Twp: 5N Rng: 66W Sec: 10 Twp: 5N 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: 186 ft  
 18. Distance to nearest property line: 196 ft 19. Distance to nearest well permitted/completed in the same formation(BHL): 925 ft

**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.)
J-Sand	JSND		320	E/2
Niobrara/Codell	NB-CD	407-87	80	E/2NE/4

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):

NESE Sec. 10, T5N - R66W

25. Distance to Nearest Mineral Lease Line: 760 ft

26. Total Acres in Lease: 160

### 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	8+5/8	24	0	700	340	700	0
1ST	7+7/8	4+1/2	11.6	0	8,032	450	8,032	0

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

33. Comments No conductive surface casing will be used. Operator requests approval of a Rule 318Aa exception location: Wellhead is to be located outside of a GWA drilling window and will be located more than 50' from an existing well location. Attached Exception Location Request and Waiver. Rig height is 104'.

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: Mgr of Land & Field Ops Date: 7/21/2011 Email: crasmuson@syrginfo.com

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

<b>API NUMBER</b>
05 123 34538 00

Permit Number: \_\_\_\_\_ Expiration Date: 10/15/2013

**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.

Wellhead is 186' to the overhead power and the rig height is given as 104', the rig used to drill the subject well must not have a derrick height of greater than 2/3rds of 186 feet or 124 feet.

- 1) Provide 24 hour notice of MIRU to Bo Brown at e-mail bo.brown@state.co.us.
- 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.

### **Attachment Check List**

Att Doc Num	Name
1694260	LEASE MAP
1694261	EXCEPTION LOC REQUEST
1694262	EXCEPTION LOC WAIVERS
1694324	WELL LOCATION PLAT
1694490	WELL LOCATION PLAT
1694491	DEVIATED DRILLING PLAN
2568647	SURFACE CASING CHECK
400188246	FORM 2 SUBMITTED
400188256	MULTI-WELL PLAN
400188257	WELL LOCATION PLAT
400188258	DEVIATED DRILLING PLAN
400188260	OIL & GAS LEASE

Total Attach: 12 Files

### **General Comments**

<b>User Group</b>	<b>Comment</b>	<b>Comment Date</b>
Permit	Changed spacing from E/2NE & W/2NW to E/2 for J Sand per operator.	10/12/2011 4:30:48 PM
Permit	Operator requests approval of a Rule 318Aa exception location: Wellhead is to be located outside of a GWA drilling window and will be located more than 50' from an existing well location. Attached Exception Location Request and Waiver.	10/6/2011 3:16:04 PM
Permit	Received and attached new well plat and deviated drilling plan. changed Surface Loc to : 2437' FSL 769' FEL, Lat : 40.41358, Long : 104.75905, PDOP : 1.7, Nearest : Above GND Utility - 186', Property Line - 196'.	10/6/2011 3:15:45 PM
Permit	ON HOLD: Operator plans to move well pad. w/o updated documents.	8/30/2011 11:56:45 AM
Permit	Operator moved surface location 10' east to be 150' from powerline. Changed surface footage & lat/long and attached new well plat.	8/23/2011 11:07:53 AM
Permit	ON HOLD: Rig Height 104'. requesting a 502.b. variance letter. Attached lease map and corrected Exception Loc Request & waivers.	8/4/2011 10:04:42 AM
Permit	Requesting rig height, corrected Exception Loc Request ltr, separate doc for waivers, dollar amount removed from Warranty Deed. J Sand not spaced in T5N-R66W. Changed to 320, E/2 per operator.	3/1/2011 3:59:47 PM

Total: 7 comment(s)

**BMP**

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

Total: 0 comment(s)