

FORM  
2

Rev  
12/05

State of Colorado  
Oil and Gas Conservation Commission

1120 Lincoln Street, Suite 801, Denver, Colorado 80205 Phone: (303) 894-2100 Fax: (303) 894-2109



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APPLICATION FOR PERMIT TO:

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

2. TYPE OF WELL

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

Refiling   
Sidetrack

Document Number:  
1692720  
Plugging Bond Surety  
20090043

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: ED HOLLOWAY Phone: (970)737-1073 Fax: (970)737-1045  
Email: CRAIGRASMUSON@COMCAST.NET

7. Well Name: SRC STATE Well Number: 16DD

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

9. Proposed Total Measured Depth: 8220

WELL LOCATION INFORMATION

10. QtrQtr: NESW Sec: 16 Twp: 4N Rng: 67W Meridian: 6

Latitude: 40.309333 Longitude: -104.896667

Footage at Surface: 1390 FNL/FSL FSL 2532 FEL/FWL FWL

11. Field Name: WATTENBERG Field Number: 90750

12. Ground Elevation: 4909 13. County: WELD

14. GPS Data:

Date of Measurement: 10/14/2009 PDOP Reading: 1.5 Instrument Operator's Name: JOHN BARICKMAN

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 \_\_\_\_\_  
1311 FSL 1349 FEL 1311 FSL 1349 FEL  
Sec: 16 Twp: 4N Rng: 67W Sec: 16 Twp: 4N Rng: 67W

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: 1000 ft

18. Distance to nearest property line: 155 ft 19. Distance to nearest well permitted/completed in the same formation: 783 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.)
J-SAND	JSND	232-23	320	S/2
NIOBRARA/CODELL	NB-CD	407-87	160	SE/4

21. Mineral Ownership:  Fee  State  Federal  Indian Lease #: 88/5056S

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 Bon  \$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):  
S/2, SEC. 16, 4N, 67W

25. Distance to Nearest Mineral Lease Line: 1320 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 27 or 28 are yes, is this location in a sensitive area (Rule 903)?  Yes  No **If 28, 29, or 30 are "Yes" a pit permit may be required.**

31. Mud disposal:  Offsite  Onsite  
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	Weight Per Foot	Setting Depth	Sacks Cement	Cement Bottom	Cement Top
SURF	12+1/4	8+5/8	24	590	300	590	0
1ST	7+7/8	4+1/2	11.6	7,800	490	7,800	

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

33. Comments NO CONDUCTOR CASING WILL BE USED.

34. Location ID: 302650

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: LAND & FIELD OPER. Date: 10/27/2009 Email: CRAIGRASMUSON@COMCA

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. Nashin Director of COGCC Date: 11/18/2009

**API NUMBER**  
05 123 30744 00

Permit Number: \_\_\_\_\_ Expiration Date: 11/17/2010

**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.

SYNERGY HAS OBTAINED WAIVERS FROM THE LGD, SURFACE OWNER, AND OPERATOR TO WAIVE THE WHOA PERIOD (305d1,2)

1) Provide 24 hour notice of MIRU to Ed Binkley at 970-506-9834 or e-mail at ed.binkley@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) Run and submit Directional Survey from TD to base of surface casing. The operator shall comply with Rule 321, and it shall be the operator's responsibility to 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	Doc Description
1692720	APD ORIGINAL	LF@2167868 1692720
1692732	WELL LOCATION PLAT	LF@2167870 1692732
1692733	DEVIATED DRILLING PLAN	LF@2167872 1692733
1692734	EXCEPTION LOC REQUEST	LF@2167874 1692734
1759621	30 DAY NOTICE LETTER	LF@2174324 1759621
1759625	SURFACE AGRMT/SURETY	LF@2174323 1759625
1759627	EXCEPTION LOC WAIVERS	LF@2174322 1759627
1759630	WAIVERS	LF@2174325 1759630
400012063	FORM 2 SUBMITTED	LF@2168747 400012063

Total Attach: 9 Files