

**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



DE	ET	OE	ES
----	----	----	----

Document Number:  
400030589  
Plugging Bond Surety  
20090043

**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

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: pm3rsandquist@aol.com  
 7. Well Name: SRC State Well Number: 16HD  
 8. Unit Name (if appl): \_\_\_\_\_ Unit Number: \_\_\_\_\_  
 9. Proposed Total Measured Depth: 7512

**WELL LOCATION INFORMATION**

10. QtrQtr: NESW Sec: 16 Twp: 4N Rng: 67W Meridian: 6  
 Latitude: 40.309520 Longitude: -104.900652  
 Footage at Surface: \_\_\_\_\_ FNL/FSL \_\_\_\_\_ FEL/FWL \_\_\_\_\_  
1436 FSL 1422 FWL  
 11. Field Name: Wattenberg Field Number: 90750  
 12. Ground Elevation: 4896 13. County: WELD

14. GPS Data:  
Date of Measurement: 12/17/2009 PDOP Reading: 1.3 Instrument Operator's Name: John C. 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 \_\_\_\_\_  
1320 FSL 100 FWL 1320 FSL 100 FWL  
 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: 1357 ft  
 18. Distance to nearest property line: 130 ft 19. Distance to nearest well permitted/completed in the same formation: 789 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.)
Niobrara/Codell	NB/CD	407-87	80	E2SE4-17&W2SW4-16

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

22. Surface Ownership:  Fee  State  Federal  Indian

23. Is the Surface Owner also the Mineral Owner?  Yes  No Surface Surety ID#: 20090044

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: 1436 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	580	300	580	0
1ST	7+7/8	4+1/2	11.6	7,512	490	7,512	200

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

33. Comments No Conductive Surface Casing Will Be Used

34. Location ID: 332784

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: \_\_\_\_\_ Email: craigrasmuson@comcast.net

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: \_\_\_\_\_

<b>API NUMBER</b> 05 123 29539 00	Permit Number: _____ Expiration Date: _____
--------------------------------------	---

**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.

### Attachment Check List

Att Doc Num	Name	Doc Description
400030958	ACCESS ROAD MAP	Baseline Access Road Map SRC State 16HD.pdf
400030964	HYDROLOGY MAP	Baseline Hydrology Map SRC State 16HD.pdf
400030967	MULTI-WELL PLAN	Baseline Multiple Well Pad Plan-SRC State Wells.pdf
400030969	WELL LOCATION PLAT	Baseline Survey SRC State 16HD.pdf
400030971	OTHER	Baseline Visible Improvements SRC State 16HD.pdf
400030972	LOCATION PICTURES	Baseline Well Head Photo Exhibit SRC State 16HD.pdf
400030974	EXCEPTION LOC REQUEST	Request For Exception-Rule 318A-Landowner.pdf
400030976	SURFACE OWNER CONSENT	Surface Owner Notification-Consultation Waiver.pdf
400030977	SURFACE AGRMT/SURETY	Surface Use Agreement SRC State Wells-Grays Inc..pdf
400030992	WAIVERS	Surface Property Line Waiver-SRC State 16HDdf.pdf
400030993	DRILLING PLAN	Ensign Directional-SynergySRCState16HDPlan#21-11-10.pdf
400030994	OTHER	SRC State 16HD-318Ae 20 day Certification Letter.pdf
400031009	PROPOSED SPACING UNIT	SRC State 16HD-318A Proposed Spacing Unit Plan.pdf
400031010	PROPOSED SPACING UNIT	SRC State 16HD-.Proposed 160 Acre Spacing Unit Map.pdf

Total Attach: 14 Files