

FORM
2

Rev
12/05

State of Colorado
Oil and Gas Conservation Commission

1120 Lincoln Street, Suite 801, Denver, Colorado 80203 Phone: (303) 894-2100 Fax: (303) 894-2109



Document Number:

400327121

Date Received:

09/14/2012

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: Avex Well Number: 10ND

8. Unit Name (if appl): _____ Unit Number: _____

9. Proposed Total Measured Depth: 8195

WELL LOCATION INFORMATION

10. QtrQtr: SWNE Sec: 10 Twp: 4N Rng: 68W Meridian: 6

Latitude: 40.331342 Longitude: -104.985183

Footage at Surface: _____ feet FNL/FSL _____ feet FEL/FWL _____ feet
FNL _____ feet FEL _____ feet

11. Field Name: Wattenberg Field Number: 90750

12. Ground Elevation: 5037 13. County: WELD

14. GPS Data:

Date of Measurement: 09/13/2012 PDOP Reading: 2.1 Instrument Operator's Name: Aaron A. 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 _____
542 FNL 2120 FEL 484 FNL 2174 FEL
Sec: 10 Twp: 4N Rng: 68W Sec: 10 Twp: 4N 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: 1137 ft

18. Distance to nearest property line: 1137 ft 19. Distance to nearest well permitted/completed in the same formation(BHL): 1000 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	N/2
Niobrara/Codell	NB-CD	407-87	80	N/2 NE/2

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):

N2/4 Section 10

25. Distance to Nearest Mineral Lease Line: 484 ft 26. Total Acres in Lease: 144

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	550	350	550	0
1ST	7+7/8	4+1/2	11.6	0	8,195	410	8,195	200

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

33. Comments No conductive surface casing will be used. Synergy just acquired the lease for the NW quarter of Section 10 and would like to add this well to the pad.

34. Location ID: 427466

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: Head of Operations Date: 9/14/2012 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: 10/12/2012

API NUMBER
05 123 36163 00

Permit Number: _____ Expiration Date: 10/11/2014

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 as per amended Rule 318Ae(4)

- 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.

Attachment Check List

Att Doc Num	Name
1695208	DEVIATED DRILLING PLAN
1695209	MULTI-WELL PLAN
1699094	OIL & GAS LEASE
1699099	PROPOSED SPACING UNIT
1699101	PROPOSED SPACING UNIT
400327121	FORM 2 SUBMITTED
400327132	WELL LOCATION PLAT
400327620	DIRECTIONAL DATA

Total Attach: 8 Files

General Comments

<u>User Group</u>	<u>Comment</u>	<u>Comment Date</u>
Permit	Corrected lease description as per Opr. Final review complete.	10/9/2012 9:29:29 AM
Permit	Attached proposed spacing unit cert letter and map as per opr. Ready to pass pending public comment 10/4/12.	9/19/2012 4:26:02 PM
Permit	Requested proposed wellbore spacing and cert letter from opr.	9/18/2012 9:43:25 AM
Permit	Added Deviated drilling plan & template. O&G lease.	9/17/2012 3:17:41 PM
Permit	completeness passed with missing documents. operator requested quick turnaround.	9/14/2012 3:20:10 PM

Total: 5 comment(s)

BMP

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

Total: 0 comment(s)