

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

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 ☐

Document Number:

400188544

PluggingBond SuretyID

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: Kori Thoren Phone: (970)737-1073 Fax: (970)737-1045

Email: kthoren@syrginfo.com

7. Well Name: SRC Aims Well Number: 23-10D

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

9. Proposed Total Measured Depth: 8418

WELL LOCATION INFORMATION

10. QtrQtr: NESE Sec: 10 Twp: 5N Rng: 66W Meridian: 6

Latitude: 40.413720 Longitude: -104.759380

Footage at Surface: 2487 feet FNL/FSL 861 feet FEL/FWL FEL

11. Field Name: Wattenberg Field Number: 90750

12. Ground Elevation: 4859 13. County: WELD

14. GPS Data:

Date of Measurement: 09/15/2011 PDOP Reading: 3.6 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 1958 FSL 1968 FWL 1958 FSL 1968 FWL 1958 FSL 1968 FWL
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: 133 ft

18. Distance to nearest property line: 144 ft 19. Distance to nearest well permitted/completed in the same formation(BHL): 950 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		320	S/2
Niobrara/Codell	NB-CD	407-87	80	E/2SW4

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: 682 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	8,418	450	8,418	0

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

33. Comments No conductive surface casing will be used. The buildings to the East of the Eastern most Well Heads and equipment on this location are within the 350' requirement- however this building is a "shed" storing a lawnmower and other outdoor equipment. Operator is requesting a 502.b. variance unable to meet safety setback from overhead powerline. Request letter is attached. Rig Height 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: 7/22/2011 Email: crasmuson@syrinfo.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: 11/6/2011

API NUMBER

05 123 34659 00

Permit Number: _____ Expiration Date: 11/5/2013

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.

- 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
1694278	LEASE MAP
1694279	EXCEPTION LOC REQUEST
1694280	EXCEPTION LOC WAIVERS
1694480	WELL LOCATION PLAT
1694481	DEVIATED DRILLING PLAN
1694526	WAIVERS
1694528	VARIANCE REQUEST
2568647	SURFACE CASING CHECK
400188544	FORM 2 SUBMITTED
400188625	MULTI-WELL PLAN
400188639	OIL & GAS LEASE

Total Attach: 11 Files

General Comments

<u>User Group</u>	<u>Comment</u>	<u>Comment Date</u>
Permit	Final Review Completed. No LGD or public comment received.	11/1/2011 4:47:17 PM
Permit	received property line waiver and request letter for 502.b variance.	10/31/2011 9:06:20 AM
Permit	ON HOLD: Rig Height 104'. requesting a 502.b. variance letter and less than 150' from property line waiver.	10/7/2011 4:05:21 PM
Permit	Wellhead is 133' 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 133 feet or 89 feet. 502.b. variance is granted in consideration of maximizing use of the location and proposed safety precautions.	10/7/2011 4:04:41 PM
Permit	Operator moved surface location and submitted corrected well location plat and deviated drilling plan. Changed Surface Loc to: 2487' FSL 861' FEL, Lat : 40.41372, Long : 104.75938, PDOP : 3.6, Nearest: Above GND Utility - 133', Property Line - 144'.	10/7/2011 4:02:06 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.	10/7/2011 4:01:56 PM
Permit	J Sand not spaced in T5N-R66W. Changed to 320, S/2 per operator.	10/7/2011 4:01:46 PM
Permit	Request change to J Sand spacing unit configuration. J Sand under statewide spacing.	10/7/2011 4:01:13 PM
Permit	ON HOLD: Operator plans to move well pad. w/o updated documents.	8/30/2011 11:58:02 AM
Permit	Operator moved surface location 10' east to be 150' from powerline. corrected surface footage & lat/long and attached new well plat.	8/23/2011 1:13:02 PM
Permit	ON HOLD: Rig Height 104' requesting a 502.b. variance letter. Attached lease map and corrected Exception Loc Request & waivers.	8/4/2011 10:09:26 AM
Permit	Requesting rig height, corrected Exception Loc Request ltr, separate doc for waivers, dollar amount removed from Warranty Deed, and removal of J Sand spacing order.	8/2/2011 11:07:30 AM

Total: 12 comment(s)

BMP

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

Total: 0 comment(s)