

**APPLICATION FOR PERMIT TO:**

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

2. TYPE OF WELL

OIL       GAS       COALBED       OTHER test well, CO2

SINGLE ZONE       MULTIPLE       COMMINGLE

Refiling   
Sidetrack

Document Number:  
400205316

PluggingBond SuretyID  
20110167

3. Name of Operator: SCHLUMBERGER CARBON SERVICES      4. COGCC Operator Number: 10382

5. Address: 1875 LAWRENCE ST., SUITE 500  
City: DENVER      State: CO      Zip: 80202

6. Contact Name: Wayne Rowe      Phone: (303)297-9005      Fax: (303)297-9007  
Email: rowe5@slb.com

7. Well Name: RMCCS State      Well Number: No. 1

8. Unit Name (if appl): N/A      Unit Number: N/A

9. Proposed Total Measured Depth: 10000

**WELL LOCATION INFORMATION**

10. QtrQtr: SWSE      Sec: 34      Twp: 6N      Rng: 91W      Meridian: 6  
Latitude: 40.427476      Longitude: -107.589754

Footage at Surface:      210      feet      FSL      2416      feet      FEL

11. Field Name: N/A      Field Number: \_\_\_\_\_

12. Ground Elevation: 6832      13. County: MOFFAT

14. GPS Data:  
Date of Measurement: 07/16/2011      PDOP Reading: 1.4      Instrument Operator's Name: P.Epp

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

Sec: \_\_\_\_\_ Twp: \_\_\_\_\_ Rng: \_\_\_\_\_      Sec: \_\_\_\_\_ Twp: \_\_\_\_\_ Rng: \_\_\_\_\_

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: 5000 ft

18. Distance to nearest property line: 220 ft      19. Distance to nearest well permitted/completed in the same formation(BHL): 15425 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.)
Weber Sandstone	WEBR			

21. Mineral Ownership:       Fee       State       Federal       Indian      Lease #: N/A

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):

This is a stratigraphic test well for CO2 sequestration, no oil or gas will be extracted or produced. No lease information is therefore required.

25. Distance to Nearest Mineral Lease Line: \_\_\_\_\_ 26. Total Acres in Lease: \_\_\_\_\_

### 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: pit

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
CONDUCTOR		20	94	0	100		100	
SURF	17+1/2	13+3/8	54.5	0	1,500	926	1,500	100
1ST	12+1/4	9+5/8	43.5	0	5,500	960	5,500	1,500
2ND	8+1/2			0	9,700	0		

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

33. Comments This APD is for a stratigraphic test well for CO2 sequestration. This is a Department of Energy funded project with the University of Utah, Colorado Geologic Survey & Tri-State partnering to conduct the work at the Trapper Mine, located on state surface. Attached is a letter from the state of Colorado Land Board as to surface use. No oil or gas will be extracted or produced. No lease information is therefore required. A Form 15 pit permit is being submitted concurrently with this location assessment. RMCCS State #1 plugging procedure: Plug 1 Covers a minimum of 100' above tops of Entrada, and Chinle/Moenkopi 35 bbls or 195 ft3 of Class H 15.1 ppg Yield 1.15 cf/sx set from 8300 ft to 7800 ft. MD (Depth adjusted for actual formation tops) Plug 2 Covers a minimum of 100' above top of Dakota and the Morrison 35 bbls or 195 ft3 of Class H 15.1 ppg Yield 1.15 cf/sx set from 7400 to 6900 ft MD (Depth adjusted for actual formation tops) Plug 3 50 ft in and 50 ft outside 9 5/8" casing shoe from 5550 ft to 5450 ft, 7 bbls or 41 ft3 of Class H 15.1 ppg Yield 1.15 cf/sx Plug 4 Across surface casing shoe 100'(50' in, 50' out) from 1450 to 1550 feet 7 bbls or 41 ft3 of Class H 15.1 ppg Yield 1.15 cf/sx Plug 5 Surface Plug 50 feet from 55 to 5 ft(Cellar cutoff depth) 3.5 bbls 20ft3 of class H 15.1 ppg yeild 1.15 cf/sx

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: Wayne Rowe

Title: Project Manager Date: 9/23/2011 Email: rowe5@slb.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: 10/27/2011

**API NUMBER**  
05 081 07694 00

Permit Number: \_\_\_\_\_ Expiration Date: 10/26/2013

**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.

COMPLIANCE WITH THE MOST CURRENT REVISION OF THE NORTHWEST COLORADO NOTIFICATION POLICY IS REQUIRED.

THE PROPOSED SURFACE CASING IS MORE THAN 50' BELOW THE DEPTH OF THE DEEPEST WATER WELL WITHIN 1MILE OF THE SURFACE LOCATION WHEN CORRECTED FOR ELEVATION DIFFERENCES. THE DEEPEST WATER WELL WITHIN 1 MILE IS 000 FEET DEEP.

NOTIFY KRIS NEIDEL (Kris.Neidel@state.co.us) AT LEAST 24-HOURS PRIOR TO COMMENCING PLUGGING OPERATIONS.

### Attachment Check List

Att Doc Num	Name
400205316	FORM 2 SUBMITTED
400205326	WELL LOCATION PLAT
400205328	TOPO MAP
400205372	SURFACE OWNER CONSENT

Total Attach: 4 Files

### General Comments

<u>User Group</u>	<u>Comment</u>	<u>Comment Date</u>
Permit	LGD/pub. comm. waived. CPW comments addressed on 2A. Final comprehensive review status--passed.	10/25/2011 2:11:48 PM
Permit	Krista Anderson with Norwest Corp. req'd expedited approval to get construction crew in last week of Oct.	10/12/2011 10:04:44 AM
Permit	READY TO APPROVE IN PERMITTING WHEN LGD/PUB. EXP. 10/13 NEED OGLA APPROVAL ON 2A.	10/3/2011 10:32:34 AM

Total: 3 comment(s)

### BMP

<u>Type</u>	<u>Comment</u>
Material Handling and Spill Prevention	Secondary containments will be constructed in accordance with COGCC E&P Waste Management Rules 906.e.(1). Good housekeeping measures will be implemented for appropriate waste disposal.
Storm Water/Erosion Control	Stormwater BMPs will be developed and implemented consistent with COGCC Reclamation Rules 1002.f.(2) and as required by the Colorado Department of Public Health. The project will occur in an unreclaimed pit that has not been revegetated. BMPs will include but are not limited to secondary containment berms and wattles.
Wildlife	Schlumberger has been in contact with the Colorado Division of Parks and Wildlife and is consulting with them as to appropriate BMPs for this location and project.

Total: 3 comment(s)