



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):  
 N/A

25. Distance to Nearest Mineral Lease Line: 800 ft      26. Total Acres in Lease: 0

**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: closed loop system

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	10	6	18	0	40	10	40	0

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

33. Comments    THIS WELL IS INTENDED AS TO PROVIDE A CONTINUOUS CORE OF THE MANCOS SHALE AS PART OF A USGS RESEARCH PROJECT ON POTENTIAL GAS SHALES OF THE ROCKY MOUNTAIN REGION. WE CHOSE THE PROPOSED SITE AS IT IS IN AN BLM OHV DESIGNATED AREA. Surface hole will be drilled with air. Coring will be done with mist. The well will be logged after coring and immediately plugged.

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: CHRISTOPHERE J. SCHENK

Title: GEOLOGIST      Date: 10/20/2011      Email: SCHENK@USGS.GOV

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. Nesline*      Director of COGCC      Date: 10/23/2011

<b>API NUMBER</b>
05 029 06110 00

Permit Number: \_\_\_\_\_      Expiration Date: 10/22/2013

**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. COMPLIANCE WITH THE MOST CURRENT REVISION OF THE NORTHWEST COLORADO NOTIFICATION POLICY IS REQUIRED. 2. CHANGED MINIMUM SURFACE CASING SETTING DEPTH REQUIREMENT FROM 20' TO 40'. INCREASE SURFACE CASING VOLUME OF CEMENT ACCORDINGLY TO PROVIDE A FULL COLUMN OF CEMENT IN THE SURFACE CASING-WELLBORE ANNULUS. 3. AFTER CORING AND LOGGING THE HOLE, PLUG THE HOLE USING "HIGH-SOLID BENTONITE SLURRY," PER USGS'S DRILLING PLAN FROM TD TO 270' (MINIMUM COGCC-REQUIRED PLUG DEPTH; CHANGED FROM 20' TO 270'), CIRCULATE FROM 270' TO SURFACE WITH WATER AND/OR CEMENT SCAVENGER, THEN SET A CEMENT PLUG FROM 270' TO SURFACE.

**Attachment Check List**

Att Doc Num	Name
1638148	APD ORIGINAL
1638151	FED. DRILLING PERMIT
1638153	WAIVERS

Total Attach: 3 Files

**General Comments**

<b><u>User Group</u></b>	<b><u>Comment</u></b>	<b><u>Comment Date</u></b>
Permit	Well Name and number adjusted. Delta County waiver of LGD 20 day comment period attached. Entered values for operator number, location footages, distances to cultural features, nearest well, property line, lease line, casing depth. Converted latitude and longitude to decimal degrees.	10/23/2011 8:45:31 AM
Data Entry	CHECK WELL NAME - WELL NUMBER NEEDED FOR SUBMISSION OF THIS FORM 2.	10/20/2011 2:55:32 PM

Total: 2 comment(s)

**BMP**

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

Total: 0 comment(s)