


<b>FORM</b> <b>2</b> Rev 12/05	<b>State of Colorado</b> <b>Oil and Gas Conservation Commission</b> 1120 Lincoln Street, Suite 801, Denver, Colorado 80205 Phone: (303) 894-2100 Fax: (303) 894-2109		<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 25%;">DE</td> <td style="width: 25%;">ET</td> <td style="width: 25%;">OE</td> <td style="width: 25%;">ES</td> </tr> </table> Document Number:  400159702  Plugging Bond Surety	DE	ET	OE	ES
DE	ET	OE	ES				
<b>APPLICATION FOR PERMIT TO:</b>							
1. <input checked="" type="checkbox"/> <b>Drill,</b> <input type="checkbox"/> Deepen, <input type="checkbox"/> Re-enter, <input type="checkbox"/> Recomplete and Operate							
2. TYPE OF WELL OIL <input checked="" type="checkbox"/> GAS <input type="checkbox"/> COALBED <input type="checkbox"/> OTHER _____ SINGLE ZONE <input checked="" type="checkbox"/> MULTIPLE ZONE <input type="checkbox"/> COMMINGLE ZONE <input type="checkbox"/>		Refiling <input type="checkbox"/> Sidetrack <input type="checkbox"/>					
3. Name of Operator: <u>QUICKSILVER RESOURCES INC</u>		4. COGCC Operator Number: <u>10255</u>					
5. Address: <u>801 CHERRY ST - #3700 UNIT 19</u> City: <u>FT WORTH</u> State: <u>TX</u> Zip: <u>76102</u>							
6. Contact Name: <u>LISA SMITH</u> Phone: <u>(303)857-9999</u> Fax: <u>(303)450-9200</u> Email: <u>lspermitco@aol.com</u>							
7. Well Name: <u>K-Diamond Federal</u>		Well Number: <u>21-21</u>					
8. Unit Name (if appl): _____		Unit Number: _____					
9. Proposed Total Measured Depth: <u>7000</u>							
<b>WELL LOCATION INFORMATION</b>							
10. QtrQtr: <u>NE NW</u> Sec: <u>21</u> Twp: <u>6N</u> Rng: <u>92W</u> Meridian: <u>6</u> Latitude: <u>40.461783</u> Longitude: <u>-107.727072</u>							
Footage at Surface: <u>651</u> feet      FNL/FSL <u>2047</u> feet      FEL/FWL <u>FWL</u>							
11. Field Name: <u>Wildcat</u>		Field Number: <u>99999</u>					
12. Ground Elevation: <u>6310</u>		13. County: <u>MOFFAT</u>					
14. GPS Data: Date of Measurement: <u>04/21/2011</u> PDOP Reading: <u>2.2</u> Instrument Operator's Name: <u>McCoy Anderson</u>							
15. If well is <input type="checkbox"/> Directional <input type="checkbox"/> Horizontal (highly deviated) <b>submit deviated drilling plan.</b> 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)? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No							
17. Distance to the nearest building, public road, above ground utility or railroad: <u>5280 ft</u>							
18. Distance to nearest property line: <u>651 ft</u> 19. Distance to nearest well permitted/completed in the same formation: <u>3013 ft</u>							
<b>20. LEASE, SPACING AND POOLING INFORMATION</b>							
Objective Formation(s)	Formation Code	Spacing Order Number(s)	Unit Acreage Assigned to Well	Unit Configuration (N/2, SE/4, etc.)			
Niobrara	NBRR						

**IMPORTANT: SOME DATA FIELDS HAVE BEEN MODIFIED.**

21. Mineral Ownership: ☐ Fee ☐ State ☒ Federal ☐ Indian Lease #: COC-64882

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):

T6N - R92W Section 19: Lots 6-8, SENW, E2SW, Section 20: SW, Section 21: NWNE, E2NW, NESE, Section: 22 SWNW, Section: 28 N2NE, S2SW, SE Section 29: All, Section 32: NW, N/2 SW

25. Distance to Nearest Mineral Lease Line: 601 26. Total Acres in Lease: 1635

**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
CONDUCTOR	20	16		0	40	0	40	0
SURF	12+1/4	9+5/8	36	0	1,200	500	1,200	0
1ST	8+3/4	7	26	0	5,600	650	5,600	1,000
2ND	6+1/8	4+1/2	11.6	2600	7,000	355	5,600	2,600

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

33. Comments 5000 psi, DV Packer @ 5600'

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: LISA SMITH

Title: President Date: 4/29/2011 Email: lspermitco@aol.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. Nesline Director of COGCC Date: 6/10/2011

**API NUMBER**

05 081 07656 00

Permit Number: \_\_\_\_\_ Expiration Date: 6/9/2013

**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.) THE 7" CASING MUST RUN ALL THE WAY TO SURFACE TO PROTECT PROBABLE SHALLOW AQUIFERS AND PROVIDE BRH ACCESS FOR MONITORING PURPOSES.

1. BOTH 7" AND 4 1/2" CASINGS CEMENT TOPS VERIFICATION BY CBL REQUIRED.

2. THE PROPOSED SURFACE CASING IS MORE THAN 50' BELOW THE DEPTH OF THE DEEPEST WATER WELL WITHIN 1 MILE OF THE SURFACE LOCATION WHEN CORRECTED FOR ELEVATION DIFFERENCES. THE DEEPEST WATER WELL WITHIN 1 MILE IS 0 FEET DEEP.

### **Attachment Check List**

Att Doc Num	Name
400159702	FORM 2 SUBMITTED
400160586	WELL LOCATION PLAT
400165760	SURFACE AGRMT/SURETY

Total Attach: 3 Files

### **General Comments**

<b><u>User Group</u></b>	<b><u>Comment</u></b>	<b><u>Comment Date</u></b>
Permit	Operator has corrected all deficiencies and the permitting portion of the permit has passed	5/17/2011 4:46:36 PM
Permit	Back to draft for SUA attachment. sf	5/17/2011 10:59:16 AM
Permit	Needs SUA attached. sf	5/3/2011 10:43:18 AM
Permit	Returned to draft for the following reasons Commingle information was left blank Plugging bond information included	5/2/2011 10:23:21 AM

Total: 4 comment(s)

### **BMP**

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

Total: 0 comment(s)