


<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>	DE	ET	OE	ES
DE	ET	OE	ES				
<b>APPLICATION FOR PERMIT TO:</b>			Document Number:  400142324  Plugging Bond Surety  20080107				
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 type="checkbox"/> GAS <input checked="" 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>777 WEST ROSEDALE</u> City: <u>FT WORTH</u> State: <u>TX</u> Zip: <u>76104</u>							
6. Contact Name: <u>Venessa Langmacher</u> Phone: <u>(303)8579999</u> Fax: <u>(303)4509200</u> Email: <u>vllpermitco@aol.com</u>							
7. Well Name: <u>Gamma State</u>		Well Number: <u>23-15</u>					
8. Unit Name (if appl): <u>Sombrero Unit</u>		Unit Number: <u>COC-72192X</u>					
9. Proposed Total Measured Depth: <u>9308</u>							
<b>WELL LOCATION INFORMATION</b>							
10. QtrQtr: <u>lot 4</u> Sec: <u>15</u> Twp: <u>7N</u> Rng: <u>93W</u> Meridian: <u>6</u> Latitude: <u>40.552558</u> Longitude: <u>-107.826778</u>							
Footage at Surface: <u>681</u> feet      FNL/FSL <u>662</u> feet      FEL/FWL <u>FWL</u>							
11. Field Name: <u>Big Gulch</u>		Field Number: <u>6420</u>					
12. Ground Elevation: <u>6468</u>		13. County: <u>MOFFAT</u>					
14. GPS Data: Date of Measurement: <u>02/14/2011</u> PDOP Reading: <u>1.7</u> Instrument Operator's Name: <u>Gary Streeter</u>							
15. If well is <input checked="" 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 <u>2299</u> <u>FSL</u> <u>1666</u> <u>FWL</u> <u>2299</u> <u>FSL</u> <u>1666</u> <u>FWL</u> Sec: <u>15</u> Twp: <u>7N</u> Rng: <u>93W</u> Sec: <u>15</u> Twp: <u>7N</u> Rng: <u>93W</u>							
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>1478 ft</u>							
18. Distance to nearest property line: <u>662 ft</u> 19. Distance to nearest well permitted/completed in the same formation: <u>1900 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 #: 56/252-S

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 Bon ☐ \$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):  
T7N - R93W: Section 15: Lot 4 (SW) Section 22: Lot 3 (NW) Section 21: Lot 1 (NE)

25. Distance to Nearest Mineral Lease Line: 341 ft 26. Total Acres in Lease: 454

**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

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.

If 28, 29, or 30 are "Yes" a pit permit may be required.

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		40	0
SURF	12+1/4	9+5/8	36	0	1,200	215	1,200	0
1ST	8+3/4	7	26	1000	7,160	600	7,160	1,000
2ND	6+1/8	4+1/2	11.6	6500	9,308	190	9,308	6,500

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

33. Comments \_\_\_\_\_

34. Location ID: 313399

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: Venessa Langmacher

Title: Regulatory Supervisor Date: 3/24/2011 Email: vllpermitco@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. Neslin Director of COGCC Date: 4/17/2011

**API NUMBER**

05 081 07650 00

Permit Number: \_\_\_\_\_ Expiration Date: 4/16/2013

**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.

Before placing oil/salt based muds in the pit, operator must file and receive prior approval of a Pit Permit, Form 15. COGCC regulations regarding pit permits can be found in Rule 903.a.(3). PIT PERMITTING/REPORTING REQUIREMENTS.

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

(2) CEMENT ON PRODUCTION CASING MUST BE AT LEAST 200' ABOVE TOP OF FT. UNION AND COMPLY WITH RULES 209 AND 317.I. SEGREGATE OIL, GAS, AND FRESH-WATER-BEARING ZONES AND PROTECT COAL SEAMS. VERIFY TOP WITH CBL.

(3) THE 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 00 FEET DEEP.

### **Attachment Check List**

Att Doc Num	Name
400142324	FORM 2 SUBMITTED
400146280	WELL LOCATION PLAT
400146282	DEVIATED DRILLING PLAN

Total Attach: 3 Files

### **General Comments**

<b><u>User Group</u></b>	<b><u>Comment</u></b>	<b><u>Comment Date</u></b>
Permit	State Land Board has verified bond and given permission to proceed with these locations	3/29/2011 8:52:06 AM
Permit	Changed QQ to lot 4 and field to Big Gulch Surface is federal, removed bond Added commingle as no State minerals, SLB approval pending	3/28/2011 2:48:05 PM

Total: 2 comment(s)

### **BMP**

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

Total: 0 comment(s)