

<b>FORM</b> <b>2</b> Rev 12/05	State of Colorado <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
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**APPLICATION FOR PERMIT TO:**

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

2. TYPE OF WELL

OIL       GAS       COALBED       OTHER \_\_\_\_\_

SINGLE ZONE       MULTIPLE ZONE       COMMINGLE ZONE

Refiling

Sidetrack

Document Number:  
 400140937

Plugging Bond Surety  
 20080107

3. Name of Operator: QUICKSILVER RESOURCES INC      4. COGCC Operator Number: 10255

5. Address: 777 WEST ROSEDALE  
 City: FT WORTH      State: TX      Zip: 76104

6. Contact Name: Venessa Langmacher      Phone: (303)8579999      Fax: (303)4509200  
 Email: vllpemitco@aol.com

7. Well Name: Gamma State      Well Number: 41-21

8. Unit Name (if appl): Sombrero Unit      Unit Number: COC-72192X

9. Proposed Total Measured Depth: 9138

**WELL LOCATION INFORMATION**

10. QtrQtr: lot 4      Sec: 15      Twp: 7N      Rng: 93W      Meridian: 6  
 Latitude: 40.552422      Longitude: -107.826783

Footage at Surface:      631 feet      FSL      660 feet      FWL

11. Field Name: Big Gulch      Field Number: 6420

12. Ground Elevation: 6469      13. County: MOFFAT

14. GPS Data:  
 Date of Measurement: 02/14/2011      PDOP Reading: 1.6      Instrument Operator's Name: Gary Streeter

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

994      FNL      990      FEL      994      FNL      990      FEL

Sec: 21      Twp: 7N      Rng: 93W      Sec: 21      Twp: 7N      Rng: 93W

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: 1478 ft

18. Distance to nearest property line: 631 ft      19. Distance to nearest well permitted/completed in the same formation: 1650 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.)
Niobrara	NBRR			

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

21. Mineral Ownership:  Fee  State  Federal  Indian Lease #: 52/252-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: 994 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 **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		40	0
SURF	12+1/4	9+5/8	36	0	1,200	215	1,200	0
1ST	8+3/4	7	26	1000	6,750	600	6,750	1,000
2ND	6+1/8	4+1/2	11.6	6500	9,138	190	9,138	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 07652 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.

(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.

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.

**Attachment Check List**

Att Doc Num	Name
400140937	FORM 2 SUBMITTED
400146256	WELL LOCATION PLAT
400146257	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 8:51:42 AM
Permit	Changed QQ to lot 4, field to Big Gulch, and part of OGLA to yes Removed surface bond as it its federal Added commingle as no State minerals SLB approval pending	3/28/2011 1:21:11 PM

Total: 2 comment(s)

**BMP**

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

Total: 0 comment(s)