

**APPLICATION FOR PERMIT TO:**

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

2. TYPE OF WELL

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

SINGLE ZONE       MULTIPLE       COMMINGLE

Refiling   
Sidetrack

Document Number:  
400199164

PluggingBond SuretyID  
20110144

3. Name of Operator: LEWIS & CLARK EXPLORATION COMPANY      4. COGCC Operator Number: 50778

5. Address: 8191 SOUTHPARK LN UT 210  
City: LITTLETON      State: CO      Zip: 80120

6. Contact Name: Kallasandra Moran      Phone: (303)928-7128      Fax: (303)962-6237  
Email: kmoran@petro-fs.com

7. Well Name: Neilsen      Well Number: 4-23

8. Unit Name (if appl): \_\_\_\_\_      Unit Number: \_\_\_\_\_

9. Proposed Total Measured Depth: 8400

**WELL LOCATION INFORMATION**

10. QtrQtr: NWNW      Sec: 23      Twp: 1N      Rng: 62W      Meridian: 6  
Latitude: 40.042484      Longitude: -104.298650

Footage at Surface: \_\_\_\_\_ feet      FNL/FSL      \_\_\_\_\_ feet      FEL/FWL  
662      FNL      662      FWL

11. Field Name: Wattenberg      Field Number: 90750

12. Ground Elevation: 4974      13. County: WELD

14. GPS Data:  
Date of Measurement: 06/17/2011      PDOP Reading: 1.7      Instrument Operator's Name: Owen McKee/PFS

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: 633 ft

18. Distance to nearest property line: 662 ft      19. Distance to nearest well permitted/completed in the same formation(BHL): 2894 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.)
DAKOTA	DKTA		40	NWNW
J Sand	JSND		40	NWNW
LAKOTA	LKTA		40	NWNW
Lyons	LYNS		40	NWNW

21. Mineral Ownership:       Fee       State       Federal       Indian      Lease #: \_\_\_\_\_

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):

SEE LEASE ATTACHMENT

25. Distance to Nearest Mineral Lease Line: 662 ft 26. Total Acres in Lease: 1100

### 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
SURF	12+1/4	8+5/8	24	0	800	400	800	0
1ST	7+7/8	5+1/2	15.5	0	8,400	260	8,400	6,900

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

33. Comments The location does NOT require a variance from any of the rules listed in Rule 306.d. (1). (A). (ii). The location is NOT in a restricted surface occupancy area. The location is NOT a sensitive wildlife habitat area. No conductor casing will be set.

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: Kallasandra M Moran

Title: Regulatory Analyst Date: 8/25/2011 Email: kmoran@petro-fs.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: 9/28/2011

#### API NUMBER

05 123 34431 00

Permit Number: \_\_\_\_\_ Expiration Date: 9/27/2013

#### 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) Provide 24 hour notice of MIRU to Jim Precup at 303-469-1902 or e-mail at james.precup@state.co.us .
- 2) Provide cement coverage from TD to a minimum of 200' above D-Sand. Verify coverage with cement bond log.
- 3) If dry hole, Set 60 sks cement from 50' below D Sand base to 100' above D Sand top. Set 40 sks cement 50' above Niobrara top, 50 sks cement from 50' below to 50' above surface casing shoe, 15 sks cement top of surface casing, cut 4' below GL, weld on plate, 5 sks cement in rat hole & 5 sks cement in mouse hole.

### Attachment Check List

Att Doc Num	Name
2531069	LEGAL/LEASE DESCRIPTION
400199164	FORM 2 SUBMITTED
400199799	PLAT
400199800	TOPO MAP
400199877	30 DAY NOTICE LETTER

Total Attach: 5 Files

### General Comments

<b>User Group</b>	<b>Comment</b>	<b>Comment Date</b>
Permit	Changed FM codes per K Moran.	9/28/2011 9:47:37 AM
Permit	Updated permit with lease description.	9/7/2011 2:43:13 PM
Permit	On hold waiting for complete lease description.	8/31/2011 7:07:26 AM
Permit	Returned to draft. Missing plugging bond id number. Missing all attachments.	8/25/2011 10:20:58 AM

Total: 4 comment(s)

## BMP

<u>Type</u>	<u>Comment</u>
Planning	When feasible develop multiple well sites by using directional drilling to reduce cumulative impacts and adverse impacts on wildlife resources.
Storm Water/Erosion Control	Use water bars, and other measures to prevent erosion and non-source pollution. Implement and maintain BMPs to control stormwater runoff in a manner that minimizes erosion, transport of sediment offsite, and site degradation. Co-locate gas and water gathering lines whenever feasible, and mitigate any erosion problems that arise due to the construction of any pipeline(s).
Interim Reclamation	Utilize only such area around each producing well as is reasonably necessary. Restore the remainder of the well site location to its original condition within a reasonable time after the completion of operations. All reseeding shall be done with grasses consistent with the Rocky Mountain native mix or other grasses reasonably requested by surface owner and during planting period suggested by Owner.
Construction	Remove only the minimum amount of vegetation necessary for the construction of roads and facilities. Conserve topsoil during excavation and reuse as cover on disturbed areas to facilitate regrowth of vegetation. No construction or routine maintenance activities will be performed during periods when the soil is too wet to adequately support construction equipment.
Site Specific	Fence the well site after drilling to restrict public and wildlife access. Keep well site location, the road, and the pipeline easement free of noxious weeds, litter and debris. Spray for noxious weeds, and implement dust control, as needed. Lewis and Clark Exploration Company will not permit the release or discharge of any toxic or hazardous chemicals or wastes on Owner's Land. Construct and maintain gates where any roads used by Lewis and Clark Exploration Company cross through fences on the leased premises.
Final Reclamation	All surface restoration shall be accomplished to the satisfaction of Owner. All reseeding shall be done with grasses consistent with the Rocky Mountain native mix or other grasses reasonably requested by surface owner and during planting period suggested by Owner. Final reclamation shall be completed to the reasonable satisfaction of the Owner as soon as practical after installation (weather permitting) and in accordance with regulatory agency standards (BLM/COGCC).
Drilling/Completion Operations	Use a closed-loop drilling mud system to preclude the use of an earthen reserve pits when available.

Total: 7 comment(s)