

**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:  
400196317

PluggingBond SuretyID  
20010124

3. Name of Operator: KERR-MCGEE OIL & GAS ONSHORE LP      4. COGCC Operator Number: 47120

5. Address: P O BOX 173779  
City: DENVER      State: CO      Zip: 80217-3779

6. Contact Name: REBECCA HEIM      Phone: (720)929-6361      Fax: (720)929-7361  
Email: rebecca.heim@anadarko.com

7. Well Name: CLARK      Well Number: 13N-11HZ

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

9. Proposed Total Measured Depth: 11932

**WELL LOCATION INFORMATION**

10. QtrQtr: NWNW      Sec: 11      Twp: 1N      Rng: 66W      Meridian: 6  
Latitude: 40.071769      Longitude: -104.752041

Footage at Surface:      512      feet      FNL      470      feet      FWL

11. Field Name: WATTENBERG      Field Number: 90750

12. Ground Elevation: 5106      13. County: WELD

14. GPS Data:  
Date of Measurement: 06/29/2011      PDOP Reading: 2.0      Instrument Operator's Name: CHRIS PEARSON

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

622      FNL      661      FWL      460      FSL      660      FWL

Sec: 11      Twp: 1N      Rng: 66W      Sec: 11      Twp: 1N      Rng: 66W

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: 330 ft

18. Distance to nearest property line: 255 ft      19. Distance to nearest well permitted/completed in the same formation(BHL): 2191 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		160	W/2W/2

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#: 20010125

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 ATTACHED OIL AND GAS LEASE

25. Distance to Nearest Mineral Lease Line: 460 ft 26. Total Acres in Lease: 3297

### 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	9+5/8	36	0	1,190	430	1,190	0
1ST	8+3/4	7+0/0	26	0	7,695	740	7,695	
1ST LINER	6+1/8	4+1/2	11.6	6652	11,932			

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

33. Comments No conductor casing will be used.

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: REBECCA HEIM

Title: REGULATORY ANALYST II Date: 8/16/2011 Email: DJREGULATORY@

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: 9/30/2011

<b>API NUMBER</b>
05 123 34448 00

Permit Number: \_\_\_\_\_ Expiration Date: 9/29/2013

**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) Note surface casing setting depth change from 850' to 1190'. Increase cement coverage accordingly and cement to surface.
- 2) Provide 48 hour notice of MIRU to Jim Precup at 303-726-3822 or e-mail at jim.precup@state.co.us.
- 3) Comply with Rule 317.i and provide cement coverage from the end of the production casing to a minimum of 200' above the Niobrara and from 200' below Sussex to 200' above Sussex. Verify coverage with a cement bond log.
- 4) Comply with Rule 321. Run and submit Directional Survey from the end of production casing to base of surface casing. Ensure that the wellbore complies with setback requirements in commission orders or rules prior to producing the well.

### Attachment Check List

Att Doc Num	Name
2481134	CORRESPONDENCE
400196317	FORM 2 SUBMITTED
400196322	30 DAY NOTICE LETTER
400196323	DEVIATED DRILLING PLAN
400196324	PLAT
400196325	PROPOSED SPACING UNIT
400196326	TOPO MAP
400196327	OIL & GAS LEASE

Total Attach: 8 Files

### General Comments

<u>User Group</u>	<u>Comment</u>	<u>Comment Date</u>
Permit	Received BMP's for anticollision and HZ fracing from operator.	9/28/2011 9:10:58 AM
Permit	Requesting BMP's for anticollision and HZ frac.	9/15/2011 4:17:49 PM

Total: 2 comment(s)

### BMP

<u>Type</u>	<u>Comment</u>
Drilling/Completion Operations	<p>1 -- During the fracing of this Clark horizontal well, Kerr-McGee will monitor the bradenhead pressure of the existing UPRR 50 PAN AM J1 well that is ~15'-60' from this well.</p> <p>2. Bradenhead pressure gauges are to be installed 24 hours prior to stimulation. The gauges are to read at least once during every 24-hour period until 24-hours after stimulation is completed (post flowback). The gauges are to be of the type able to read current pressure and record the maximum encountered pressure in a 24-hour period. The gauge is to be reset between each 24-hour period. The pressures are to be recorded and saved.</p> <p>3. If at any time during stimulation or the 24-hour post-stimulation period, the bradenhead annulus pressure of the treatment well or offset wells increases more than 200 psig, as per Rule 341, the operator of the well being stimulated shall verbally notify the Director as soon as practicable, but no later than twenty-four (24) hours following the incident. Within fifteen (15) days after the occurrence, the operator shall submit a Sundry Notice, Form 4, giving all details, including corrective actions taken.</p>
Drilling/Completion Operations	2 -- The UPRR 50 Pan Am J#1 will have a Gyroscope survey run on it prior to the drilling of the well to ensure no collision issues.

Total: 2 comment(s)