



### STAGE/TOP OUT/REMEDIAL CEMENT

Cement work date: \_\_\_\_\_

| Method used | String | Cementing tool setting/pref depth | Cement volume | Cement top | Cement bottom |
|-------------|--------|-----------------------------------|---------------|------------|---------------|
|             |        |                                   |               |            |               |

Details of work:

21. Formation log intervals and test zones:

#### FORMATION LOG INTERVALS AND TEST ZONES

| FORMATION NAME | Measured Depth |        | Check if applies         |                          | COMMENTS (All DST and Core Analyses must be submitted to COGCC) |
|----------------|----------------|--------|--------------------------|--------------------------|---|
|                | Top            | Bottom | DST                      | Cored                    |   |
| PARKMAN        | 3,364          |        | <input type="checkbox"/> | <input type="checkbox"/> |   |
| SUSSEX         | 4,074          |        | <input type="checkbox"/> | <input type="checkbox"/> |   |
| SHANNON        | 4,763          |        | <input type="checkbox"/> | <input type="checkbox"/> |   |
| SHARON SPRINGS | 6,176          |        | <input type="checkbox"/> | <input type="checkbox"/> |   |
| NIOBRARA       | 6,301          |        | <input type="checkbox"/> | <input type="checkbox"/> |   |
| J SAND         | 7,026          |        | <input type="checkbox"/> | <input type="checkbox"/> |   |
| DAKOTA         | 7,210          |        | <input type="checkbox"/> | <input type="checkbox"/> |   |

Comment:

Marathon requests to keep all well data CONFIDENTIAL.

This is an observation monitoring well, not a producing well. Well is currently T/A'd.

I hereby certify all statements made in this form are, to the best of my knowledge, true, correct, and complete.

Signed: \_\_\_\_\_ Print Name: Anna Walls

Title: Regulatory Compliance Rep      Date: 10/16/2011      Email: avwalls@marathonoil.com

#### Attachment Check List

| Att Doc Num                 | Document Name          | attached ?                              |  |
|-----------------------------|------------------------|---|--|
| <b>Attachment Checklist</b> |                        |   |  |
| 400215187                   | CMT Summary *          | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/>            |
|                             | Core Analysis          | Yes <input type="checkbox"/>            | No <input checked="" type="checkbox"/> |
|                             | Directional Survey **  | Yes <input type="checkbox"/>            | No <input checked="" type="checkbox"/> |
|                             | DST Analysis           | Yes <input type="checkbox"/>            | No <input checked="" type="checkbox"/> |
|                             | Logs                   | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/>            |
| 400215189                   | Other                  | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/>            |
| <b>Other Attachments</b>    |                        |   |  |
| 400209890                   | FORM 5 SUBMITTED       | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/>            |
| 400209904                   | LAS-TRIPLE COMBINATION | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/>            |
| 400209910                   | LAS-MUD                | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/>            |
| 400209913                   | LAS-SONIC              | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/>            |
| 400209920                   | LAS-CEMENT BOND        | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/>            |
| 400215190                   | WELLBORE DIAGRAM       | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/>            |

**General Comments**

| <b>User Group</b> | <b>Comment</b>   | <b>Comment Date</b>      |
|-------------------|--|--------------------------|
| Permit            | L.C. PERMITTER IS AWARE THAT THE WELL WAS DRILLED TO THE DATOTA, PERMITTED TO THE NBBR. THE OPTR DID NOT EXCEED THE PROPOSED DRILLING DEPTH. PROCESSED ATTACHED SUNDRY | 10/20/2011<br>9:35:24 AM |

Total: 1 comment(s)