



## STAGE/TOP OUT/REMEDIAL CEMENT

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

Method used	String	Cementing tool setting/perf 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	
NIOBRARA	3,725		<input type="checkbox"/>	<input type="checkbox"/>	
FORT HAYS	4,117		<input type="checkbox"/>	<input type="checkbox"/>	
GREENHORN	4,299		<input type="checkbox"/>	<input type="checkbox"/>	
GRANEROS	4,397		<input type="checkbox"/>	<input type="checkbox"/>	
MORRISON	4,939		<input type="checkbox"/>	<input type="checkbox"/>	
WOLFCAMP	6,170		<input type="checkbox"/>	<input type="checkbox"/>	
LANSING-KANSAS CITY	6,894		<input type="checkbox"/>	<input type="checkbox"/>	
MARMATON	7,224		<input type="checkbox"/>	<input type="checkbox"/>	
CHEROKEE	7,370		<input type="checkbox"/>	<input type="checkbox"/>	
ATOKA	7,574		<input type="checkbox"/>	<input type="checkbox"/>	
MORROW	7,864		<input type="checkbox"/>	<input type="checkbox"/>	
SPERGEN	8,082		<input type="checkbox"/>	<input type="checkbox"/>	

Comment:

Larry - Have attached a new PDF CBL and LAS Triple Combo. Tried to delete corrupt file but saying it did but since its a reactivated file not sure what you will see.

Directional survey all we get is the PDF format. So cannot upload.

thanks,

Jyce

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

Signed: \_\_\_\_\_ Print Name: Joyce Henkin

Title: Production Tech Date: 1/31/2014 Email: joycehenkin@nighthawkenergy.com

### Attachment Check List

Att Doc Num	Document Name	attached ?	
<b>Attachment Checklist</b>			
400540976	CMT Summary *	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>
	Core Analysis	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>
400541050	Directional Survey **	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>
	DST Analysis	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>
	Logs	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>
400550537	Other	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>
<b>Other Attachments</b>			
400533317	FORM 5 SUBMITTED	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>
400533335	WELL LOCATION PLAT	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>
400540968	PDF-CEMENT BOND	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>
400540978	LAS-	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>
400540992	PDF-TRIPLE COMBINATION	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>
400540993	PDF-	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>
400550969	LAS-	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>
400550985	PDF-CEMENT BOND	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>

### General Comments

<u>User Group</u>	<u>Comment</u>	<u>Comment Date</u>
Permit	Requested page of the directional survey that shows the diagram of the plan view and cross-section view of the survey. Both the diagram page and data pages are required.	2/5/2014 6:54:57 AM
Permit	Requested Directional data template for the directional survey. Directional must be imported in the directional tool in the attachments tab.	2/5/2014 6:53:37 AM
Permit	Requested triple combination log in LAS format.	2/5/2014 6:51:24 AM
Permit	Cement Bond log is corrupted. Will not open.	2/5/2014 6:50:28 AM

Total: 4 comment(s)