

Cement work date: 12/14/2012

Method used	String	Cementing tool setting/perf depth	Cement volume	Cement top	Cement bottom
DV TOOL	1ST	3,101	410	0	3,101

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	610	1,352	<input type="checkbox"/>	<input type="checkbox"/>	
DAKOTA	1,735	1,984	<input type="checkbox"/>	<input type="checkbox"/>	
CHEYENNE	2,100	2,378	<input type="checkbox"/>	<input type="checkbox"/>	
BLAINE	2,836		<input type="checkbox"/>	<input type="checkbox"/>	
STONE CORRAL	3,080	3,116	<input type="checkbox"/>	<input type="checkbox"/>	
HEEBNER	4,310		<input type="checkbox"/>	<input type="checkbox"/>	
LANSING-KANSAS CITY	4,364	4,722	<input type="checkbox"/>	<input type="checkbox"/>	
MARMATON	4,722		<input checked="" type="checkbox"/>	<input type="checkbox"/>	DST #1, log depths 4730-4749. Weak blows. Recovered 15' VSGOCM. SIPs 100-145. Sampler plugged w/ LCM
CHEROKEE	4,855	5,057	<input type="checkbox"/>	<input type="checkbox"/>	
ATOKA	5,057	5,185	<input type="checkbox"/>	<input type="checkbox"/>	
MORROW	5,185	5,381	<input type="checkbox"/>	<input type="checkbox"/>	
MORROW-KEYES	5,381	5,423	<input type="checkbox"/>	<input type="checkbox"/>	
SPERGEN	5,423		<input type="checkbox"/>	<input type="checkbox"/>	

Comment:

- 1) After permit approval, prior to well pad construction, the well stake was moved 50 feet north to avoid a buried oil pipeline. The "as built" survey was performed after spud, and a new survey plat was built. This is why the location footages on this form differ from the approved permit. Form 4 filed December, 2012 to cover this.
- 2) A completion of the Spergen, Lower Morrow, and two Morrow sands is planned to start around 1/9/13.

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

Signed: _____ Print Name: Mathew Goolsby

Title: VP-Operations Date: 1/4/2013 Email: matgoolsby@vecta-denver.com

Attachment Check List

Att Doc Num	Document Name	attached ?	
Attachment Checklist			
400365038	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"/>
400365042	DST Analysis	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>
	Logs	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>
400365046	Other	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>
Other Attachments			
400364646	FORM 5 SUBMITTED	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>
400364650	LAS-COMBINATION OPEN HOLE	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>
400364651	PDF-SONIC	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>
400364652	PDF-CALIPER	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>
400364653	PDF-COMPOSITE	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>
400364654	PDF-MICROLOG	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>
400364655	PDF-TRIPLE COMBINATION	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>
400364656	PDF-INDUCTION	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>
400364657	PDF-DENSITY/NEUTRON	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>
400365043	WELLBORE DIAGRAM	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>
400365044	WELL LOCATION PLAT	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>
400365243	OPERATIONS SUMMARY	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>

General Comments

<u>User Group</u>	<u>Comment</u>	<u>Comment Date</u>

Total: 0 comment(s)