

# HALLIBURTON

iCem<sup>®</sup> Service

## **SRC ENERGY INC-EBUS**

Date: Saturday, March 24, 2018

### **Boomerang 32N-6C-M Production**

Job Date: Monday, March 05, 2018

Sincerely,

**Bryce Hinsch**

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## 1.0 Cementing Job Summary

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### 1.1 Executive Summary

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Halliburton appreciates the opportunity to perform the cementing services on the **Boomerang 32N-6C-M** cement **production** casing job. A pre-job safety meeting was held before the job where details of the job were discussed, potential safety hazards were reviewed, and environmental compliance procedures were outlined.

**Approximately 14 bbls of cement were returned to surface.**

Halliburton maintains a continuous quality improvement process and appreciates any comments or suggestions that you may have. Halliburton again thanks you for the opportunity to perform service work on this well. We hope to be your solutions provider for future projects.

Respectfully,

**Halliburton [Fort Lupton]**

*The Road to Excellence Starts with Safety*

Sold To #: 359915	Ship To #: 3823602	Quote #:	Sales Order #: 0904682484
Customer: SRC ENERGY INC-EBUS		Customer Rep: LEVEL YOUNG	
Well Name: BOOMERANG	Well #: 32N-6C-M	API/UWI #: 05-123-45392-00	
Field: WATTENBERG	City (SAP): GREELEY	County/Parish: WELD	State: COLORADO
Legal Description: NE NW-5-5N-66W-1377FNL-2327FWL			
Contractor: Precision		Rig/Platform Name/Num: Precision 462	
Job BOM: 7523 7523			
Well Type: HORIZONTAL OIL			
Sales Person: HALAMERICA\HB41307		Srvc Supervisor: Vitali Neverdasov	

**Job**

Formation Name			
Formation Depth (MD)	Top		Bottom
Form Type	BHST		
Job depth MD	15756ft	Job Depth TVD	6900
Water Depth		Wk Ht Above Floor	
Perforation Depth (MD)	From		To

**Well Data**

Description	New / Used	Size in	ID in	Weight lbm/ft	Thread	Grade	Top MD ft	Bottom MD ft	Top TVD ft	Bottom TVD ft
Casing		9.625	8.921	36	LTC	J-55	0	1800		1800
Casing	0	5.5	4.778	20	BTC	P-110	0	15756	0	6900
Open Hole Section			8.5				1800	15762	1800	6900

**Tools and Accessories**

Type	Size in	Qty	Make	Depth ft	Type	Size in	Qty	Make
Guide Shoe	5.5				Top Plug	5.5	1	WHED
Float Shoe	5.5	1	N/A	15756	Bottom Plug	5.5	1	WHED
Float Collar	5.5	1	N/A	15640	SSR plug set	5.5		
Insert Float	5.5				Plug Container	5.5	1	HES
Stage Tool	5.5				Centralizers	5.5	241	N/A

**Fluid Data**

Stage/Plug #: 1										
Fluid #	Stage Type	Fluid Name	Qty	Qty UoM	Mixing Density lbm/gal	Yield ft3/sack	Mix Fluid Gal	Rate bbl/min	Total Mix Fluid Gal	
1	Tuned Spacer III	Tuned Spacer III	40	bbl	11.5	3.8		4		
		147.42 lbm/bbl	<b>BARITE, BULK (100003681)</b>							
		35.10 gal/bbl	<b>FRESH WATER</b>							
		0.50 gal/bbl	<b>MUSOL A, 330 GAL TOTE - (790828)</b>							

0.50 gal/bbl		<b>DUAL SPACER SURFACTANT B, 5 GAL PAIL (100003665)</b>							
<b>Fluid #</b>	<b>Stage Type</b>	<b>Fluid Name</b>	<b>Qty</b>	<b>Qty UoM</b>	<b>Mixing Density lbm/gal</b>	<b>Yield ft3/sack</b>	<b>Mix Fluid Gal</b>	<b>Rate bbl/min</b>	<b>Total Mix Fluid Gal</b>
2	ElastiCem LEAD	ELASTICEM (TM) SYSTEM	1002	sack	13.2	1.57		8	7.54
0.15 %		<b>FE-2 (100001615)</b>							
0.30 %		<b>SCR-100 (100003749)</b>							
7.54 Gal		<b>FRESH WATER</b>							
<b>Fluid #</b>	<b>Stage Type</b>	<b>Fluid Name</b>	<b>Qty</b>	<b>Qty UoM</b>	<b>Mixing Density lbm/gal</b>	<b>Yield ft3/sack</b>	<b>Mix Fluid Gal</b>	<b>Rate bbl/min</b>	<b>Total Mix Fluid Gal</b>
3	NeoCem	NeoCem TM	1077	sack	13.2	2.04		8	9.77
9.77 Gal		<b>FRESH WATER</b>							
0.08 %		<b>SCR-100 (100003749)</b>							
<b>Fluid #</b>	<b>Stage Type</b>	<b>Fluid Name</b>	<b>Qty</b>	<b>Qty UoM</b>	<b>Mixing Density lbm/gal</b>	<b>Yield ft3/sack</b>	<b>Mix Fluid Gal</b>	<b>Rate bbl/min</b>	<b>Total Mix Fluid Gal</b>
4	MMCR Displacement	MMCR Displacement	40	bbbl	8.34			10	
0.1250 gal/bbl		<b>MICRO MATRIX CEMENT RETARDER, 5 GAL PAIL (100003781)</b>							
0.50 gal/bbl		<b>CLA-WEB - BULK (101985043)</b>							
<b>Fluid #</b>	<b>Stage Type</b>	<b>Fluid Name</b>	<b>Qty</b>	<b>Qty UoM</b>	<b>Mixing Density lbm/gal</b>	<b>Yield ft3/sack</b>	<b>Mix Fluid Gal</b>	<b>Rate bbl/min</b>	<b>Total Mix Fluid Gal</b>
5	Water	Water	407	bbbl	8.33			8	
<b>Cement Left In Pipe</b>	<b>Amount</b>	0 ft			<b>Reason</b>			<b>WET SHOE</b>	
<b>Comment :</b> ESTIMATED TOP OF TAIL @ 6197'. 14 BBLS OF CEMENT BACK TO SURFACE.									

## 2.0 Real-Time Job Summary

### 2.1 Job Event Log

Type	Seq. No.	Activity	Graph Label	Date	Time	Source	DH Density <i>(ppg)</i>	Comb Pump Rate <i>(bbl/min)</i>	PS Pump Press <i>(psi)</i>	Pump Stg Tot <i>(bbl)</i>	Comments
Event	1	Call Out	Call Out	3/5/2018	05:30:00	USER					ON LOCATION @ 11:00
Event	2	Depart Yard Safety Meeting	Depart Yard Safety Meeting	3/5/2018	09:35:00	USER					CREW DISCUSSED HAZARDS ALONG ROUTE OF TRAVEL. BEGAIN JOURNEY MANAGEMENT
Event	3	Depart Shop for Location	Depart Shop for Location	3/5/2018	09:50:00	USER					CALLED JORNEY
Event	4	Arrive at Location from Service Center	Arrive at Location from Service Center	3/5/2018	10:50:00	USER					30 MILES. DISCUSS NUMBERS AND JOB PROCEDURE WITH CUSTOMER. RIG IS RUNNING CASING
Event	5	Other	Other	3/5/2018	11:00:00	USER					SPOT TRUCKS
Event	6	Safety Meeting - Pre Rig-Up	Safety Meeting - Pre Rig-Up	3/5/2018	11:10:00	USER					HELD PRE RIG UP JSA
Event	7	Rig-up Lines	Rig-up Lines	3/5/2018	11:15:00	USER					RIG UP ALL SURFACE LINES TO THE BUFFER ZONE
Event	8	Casing on Bottom	Casing on Bottom	3/5/2018	12:29:00	USER					CASING LANDED
Event	9	Other	Other	3/5/2018	12:55:00	USER	0.37	0.00	3.00	0.0	RIG UP FLOOR FOR RIG TO CIRCULATE
Event	10	Safety Meeting - Pre Job	Safety Meeting - Pre Job	3/5/2018	14:11:00	USER	9.25	0.00	-1.00	0.0	PRE JOB SAFETY MEETING WITH ALL PERSONAL INVOLVED/ RIG CIRCULATING
Event	11	Start Job	Start Job	3/5/2018	14:39:01	COM4	10.45	0.00	13.00	0.0	
Event	12	Pressure Test	Pressure Test	3/5/2018	14:49:00	USER	8.47	0.00	6656.00	2.4	LOAD AND TEST LINE TO

6620 PSI

Event	13	Drop Bottom Plug	Drop Bottom Plug	3/5/2018	14:52:00	USER	8.38	0.90	16.00	2.4	DROP BOTTOM PLUG
Event	14	Pump Spacer	Pump Spacer	3/5/2018	14:53:00	USER	11.46	4.30	474.00	2.4	BATCH/ WEIGH/PUMP 40 BBLS OF TUNED SPACER WITH SURFACTANS @ 11.5 PPG
Event	15	Pump Lead Cement	Pump Lead Cement	3/5/2018	15:02:00	USER	13.27	6.10	537.00	5.2	WEIGH/ PUMP 1002 SKS (280.2 BBLS) OF ELASTICEM @ 13.2 PPG
Event	16	Pump Tail Cement	Pump Tail Cement	3/5/2018	15:41:00	USER	13.17	7.90	611.00	12.9	WEIGHT/ PUMP 1077 SKS (391.3 BBLS ) OF NEOCEM @ 13.2 PPG
Event	17	Shutdown	Shutdown	3/5/2018	16:33:00	USER	13.41	0.00	46.00	394.9	WASH PUMPS AND LINES
Event	18	Drop Top Plug	Drop Top Plug	3/5/2018	16:43:00	USER	5.11	0.00	8.00	16.1	DROP TOP PLUG
Event	19	Pump Displacement	Pump Displacement	3/5/2018	16:45:00	USER	8.32	4.00	100.00	3.3	PUMP FRESH WATER DISPLACEMENT WITH CLAWEB AND BIOCIDES. FIRST 20 BBLS WITH MMCR.
Event	20	Slow Rate	Slow Rate	3/5/2018	17:26:41	USER	8.34	4.30	2571.00	335.2	SLOW RATE TO 3 BPM
Event	21	Bump Plug	Bump Plug	3/5/2018	17:30:00	USER	8.34	0.00	3012.00	343.7	347 BBLS TOTAL DISPLACEMENT
Event	22	Other	Other	3/5/2018	17:32:00	USER	8.34	4.30	2531.00	348.1	PRESSURE UP TO SHIFT WET SHOE SUB AND PUMP 6 BBLS WET SHOE. SUB WENT @ 5200 PSI.
Event	23	Shutdown	Shutdown	3/5/2018	17:33:00	USER	8.34	0.00	2491.00	352.2	
Event	24	Check Floats	Check Floats	3/5/2018	17:34:00	USER	8.32	0.00	1422.00	0.0	FLOATS HOLD
Event	25	End Job	End Job	3/5/2018	17:35:01	COM4	8.31	0.00	7.00	0.0	
Event	26	Safety Meeting - Pre Rig-Down	Safety Meeting - Pre Rig-Down	3/5/2018	17:40:00	USER					RIG DOWN SAFETY MEETING

3.0 Attachments

3.1 SRC Energy Boomerang 32N-6C-M Production Job Chart

