

HALLIBURTON

iCem[®] Service

SYNERGY RESOURCES CORPORATION

Date: Tuesday, April 10, 2018

BOOMERANG 12C-6-M PRODUCTION

Job Date: Thursday, March 15, 2018

Sincerely,

Julia Nichols

Legal Notice

Disclaimer:

All information in this report is provided subject to the terms and conditions which govern the services provided by Halliburton. Halliburton personnel use their best efforts in gathering information and their best judgment in interpreting it, but any interpretation, research, analysis or recommendation furnished by Halliburton are opinions based upon inferences from measurements and empirical relationships and assumptions, which inferences and empirical relationships and assumptions are not infallible, and with respect to which professionals in the industry may differ. iCem 3D Displacement results are used to understand how fluids intermix during a cement job. Simulation and 3D displacement results are not intended as and should not be used as a replacement for bond logs in determining top of cement. Current 3D model calculations are known to model more volume than the input volume for standard cases due to known calculation improvements required. For rotational cases, the modeled volume will be impacted by the same calculations impacting the standard cases, as well as additional constraints imposed to make the calculation time required operationally feasible. Therefore, until further notice, 3D displacement results should not be used for replacement of a bond log, or used as an identifier of top of cement. HALLIBURTON IS UNABLE TO GUARANTEE THE ACCURACY OF ANY CHART INTERPRETATION, RESEARCH ANALYSIS, OR JOB RECOMMENDATION and any interpretation or recommendation is not for use of or reliance upon by any third party. The customer has full responsibility for any of its decisions which are based on the information provided in this report.

Table of Contents

1.0	Cementing Job Summary	4
1.1	Executive Summary	4
2.0	Real-Time Job Summary	7
2.1	Job Event Log	7
3.0	Attachments.....	10
3.1	Custom Results – Job Chart with Events	10
3.2	Custom Results – Job Chart without Events.....	11

1.0 Cementing Job Summary

1.1 Executive Summary

Halliburton appreciates the opportunity to perform the cementing services on the **BOOMERANG 12C-6-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 10 barrels 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]

HALLIBURTON

Cementing Job Summary

The Road to Excellence Starts with Safety

Sold To #: 359915		Ship To #: 3823599		Quote #:		Sales Order #: 0904706245					
Customer: SRC ENERGY INC-EBUS				Customer Rep: BUDDY DAVIS							
Well Name: BOOMERANG			Well #: 12C-6-M			API/UWI #: 05-123-45394-00					
Field: WATTENBERG		City (SAP): GREELEY		County/Parish: WELD			State: COLORADO				
Legal Description: NE NW-5-5N-66W-1407FNL-2327FWL											
Contractor: Precision					Rig/Platform Name/Num: Precision 462						
Job BOM: 7523 7523											
Well Type: HORIZONTAL OIL											
Sales Person: HALAMERICA\HB41307					Srvc Supervisor: Bryce Muir						
Job											
Formation Name											
Formation Depth (MD)		Top			Bottom						
Form Type					BHST						
Job depth MD		15744ft			Job Depth TVD		7089 FT				
Water Depth					Wk Ht Above Floor		3 FT				
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	38	LTC	J-55	0	1820	0	0	
Casing		5.5	4.778	20	BTC	P-110	0	15744	0	0	
Open Hole Section			8.5				1820	15755	0	0	
Tools and Accessories											
Type	Size in	Qty	Make	Depth ft		Type	Size in	Qty	Make		
Guide Shoe	5.5					Top Plug	5.5	1	WF		
Float Shoe	5.5	1	WF	15744		Bottom Plug	5.5	1	WF		
Float Collar	5.5	1	WF	15638		SSR plug set	5.5				
Insert Float	5.5					Plug Container	5.5	1	HES		
Stage Tool	5.5					Centralizers	5.5	241	WF		
Fluid Data											
Stage/Plug #: 1											
Fluid #	Stage Type	Fluid Name			Qty	Qty UoM	Mixing Density lbm/gal	Yield ft ³ /sack	Mix Fluid Gal	Rate bbl/min	Total Mix Fluid Gal
1	Tuned Spacer III	Tuned Spacer III			40	bbl	11.5	3.8		6	
147.42 lbm/bbl		BARITE, BULK (100003681)									
35.10 gal/bbl		FRESH WATER									
0.50 gal/bbl		MUSOL A, 330 GAL TOTE - (790828)									
0.50 gal/bbl		DUAL SPACER SURFACTANT B, 5 GAL PAIL (100003685)									

HALLIBURTON

Cementing Job Summary

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
2	ElastiCem LEAD	ELASTICEM (TM) SYSTEM	1012	sack	13.2	1.57		6	7.54
	0.15 %	FE-2 (100001615)							
	0.30 %	SCR-100 (100003749)							
	7.54 Gal	FRESH WATER							
3	NeoCem	NeoCem TM	1088	sack	13.2	2.04		4	9.77
	9.77 Gal	FRESH WATER							
	0.08 %	SCR-100 (100003749)							
4	MMCR Displacement	MMCR Displacement	20	bbl	8.34				
	0.1250 gal/bbl	MICRO MATRIX CEMENT RETARDER, 5 GAL PAIL (100003781)							
	0.50 gal/bbl	CLA-WEB - BULK (101985043)							
5	Water	Water	327	bbl	8.33				
Cement Left In Pipe			Amount	Reason			Shoe Joint		
			108 ft						
<p>Comment: WE ARRIVED ON LOCATION AND SPOTTED IN EQUIPMENT AND BEGAN TO RIG UP OUR IRON. RIG CREW WAS RUNNING CASING.THE RIG HAD TO SHUT IN THE WELL AND CIRCULATED GAS OUT OF THE WELL APPROX 900 FEET FROM TD. AFTER ALL CASING WAS RAN THE RIG USED THE CRT TO CIRCULATE THE WELL. AFTER THE RIG FINISHED CIRCULATING WE HELD A SAFETY MEETING AND THEN STARTED OUR CEMENT JOB. WE PUMPED THE MATERIALS AND QUANTITIES STATED IN THE ABOVE TABLE. AFTER LANDING THE PLUG AND PUMPING A 6 BBL WET SHOE. WE SHUTDOWN TO CHECK FLOATS. THE FLOATS HELD AND WE GOT 2 ½ BBLS BACK TO THE RCM. WE HELD A SAFETY MEETING AND RIGGED DOWN OUR EQUIPMENT. JOB WAS COMPLETELY SAFELY BY BRYCE MUIR AND CREW. WE GOT 10 BBLS OF GOOD CEMENT TO SURFACE. CALCULATED TOP OF TAIL CEMENT IS 6295 FEET.</p>									

2.0 Real-Time Job Summary

2.1 Job Event Log

Type	Seq. No.	Activity	Graph Label	Date	Time	Source	DS Pump Press <i>(psi)</i>	DH Density <i>(ppg)</i>	Comb Pump Rate <i>(bbl/min)</i>	Comments
Event	1	Call Out	Call Out	3/15/2018	05:00:00	USER				CREW CALLED OUT TO PERFORM PRODUCTION CASING JOB FOR SRC ENERGY.
Event	2	Other	Other	3/15/2018	06:00:00	USER				LOAD UP ALL REQUIRED MATERIALS NEEDED TO COMPLETE JOB. DOWN LOAD ALL NECESSARY PAPERWORK FOR THE JOB.
Event	3	Depart Yard Safety Meeting	Depart Yard Safety Meeting	3/15/2018	09:30:00	USER				DISCUSS HAZARDS ASSOCIATED WITH DRIVING TRUCKS TO LOCATION. IDENTIFY SAFEST ROUTE OF TRAVEL, CONVOY ORDER, AND PLACES TO STOP IF NEEDED.
Event	4	Depart from Service Center or Other Site	Depart from Service Center or Other Site	3/15/2018	10:00:00	USER				
Event	5	Arrive at Location from Service Center	Arrive at Location from Service Center	3/15/2018	10:45:00	USER				
Event	6	Assessment Of Location Safety Meeting	Assessment Of Location Safety Meeting	3/15/2018	10:50:00	USER				ASSESS LOCATION FOR POTENTIAL HAZARDS. DISCUSS BEST WAY TO SPOT PUMPING EQUIPMENT. SPOT IN EQUIPMENT.
Event	7	Pre-Rig Up Safety Meeting	Pre-Rig Up Safety Meeting	3/15/2018	11:00:00	USER				DISCUSS HAZARDS ASSOCIATED WITH RIGGING UP AND PACKING IRON ON LOCATION.
Event	8	Rig-Up Equipment	Rig-Up Equipment	3/15/2018	11:15:00	USER				
Event	9	Other	Other	3/15/2018	12:00:00	USER	0.30	8.64	0.00	RIG RUNNING CASING. THEY HAD A FEW ISSUES WHILE RUNNING CASING. THEY HAD TO SHUT IN THE WELL AND CIRCULATE GAS OUT APPROX 900 FEET FROM TD. RIG GOT ON BOTTOM WITH CASING AROUND 1700 HOURS AND CIRCULATED THRU CRT.
Event	10	Pre-Job Safety Meeting	Pre-Job Safety Meeting	3/15/2018	18:30:00	USER	-5.70	8.67	0.00	DISCUSS HES SAFETY AND JOB PROCEDURES WITH RIG CREW AND COMPANY MAN. IDENTIFY CLOSEST HOSPITALS, MUSTER AREAS, AND FIRST AID LOCATIONS. DISCUSS IN DETAIL THE JOB ORDER OF OPERATION.

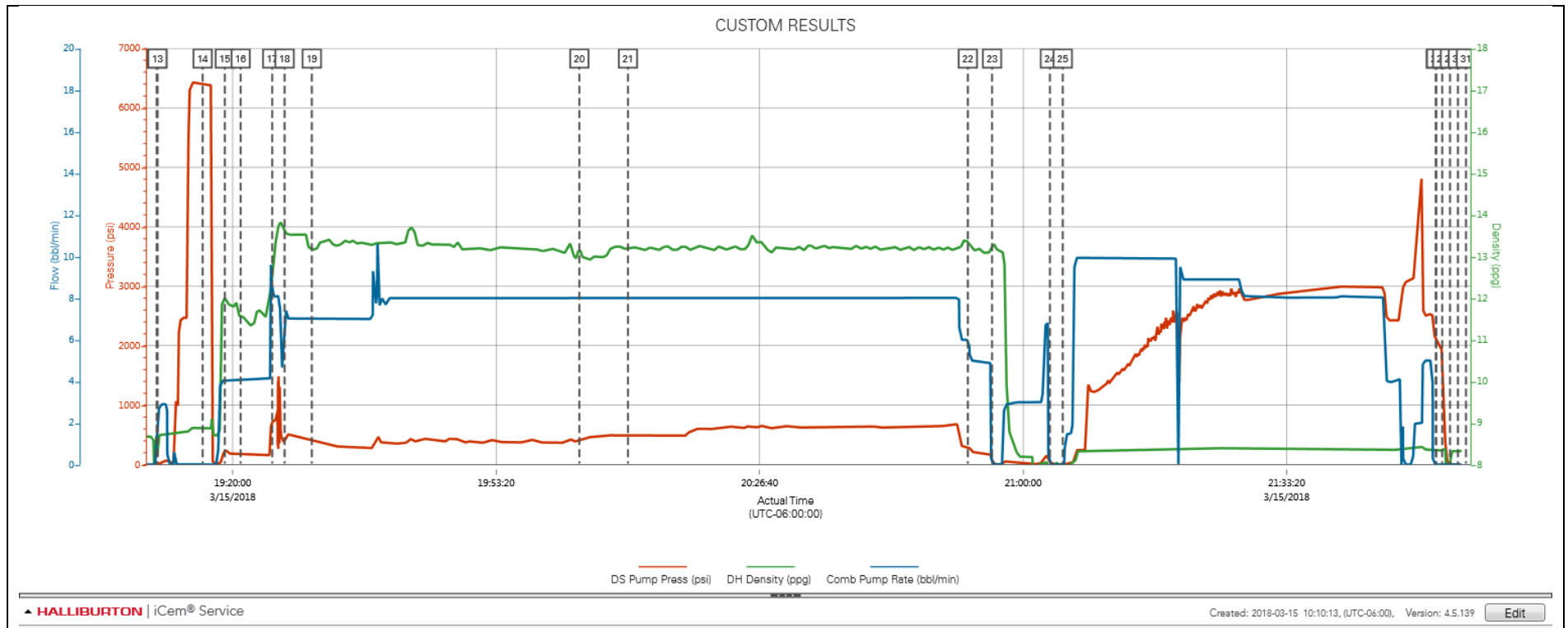
Event	11	Rig-Up Equipment	Rig-Up Equipment	3/15/2018	18:50:00	USER	-7.70	8.68	0.00	RIG UP PLUG CONTAINER, MANIFOLD, AND PUMPING LINES ON RIG FLOOR. GET READY TO PUMP JOB.
Event	12	Start Job	Start Job	3/15/2018	19:10:23	COM6	-9.70	8.65	1.50	
Event	13	Other	Other	3/15/2018	19:10:30	USER	-6.70	8.48	1.70	PUMP 3 BBLS FRESH WATER AHEAD TO FILL PUMPS AND LINES.
Event	14	Test Lines	Test Lines	3/15/2018	19:16:12	COM6	6401.30	8.88	0.00	CONDUCT A LOW PRESSURE TEST TO 500 PSI TO TEST RCM PRESSURE KICKOUTS. THEN WE CONDUCTED A HIGH PRESSURE TEST TO 6500 PSI TO TEST PUMPS AND LINES. MONITOR PRESSURE LOSS.
Event	15	Pump Spacer	Pump Spacer	3/15/2018	19:19:00	USER	264.30	12.04	4.00	PUMP 40 BBLS OF TUNED SPACER @ 11.5 #/GAL. SPACER WAS PUMPED AT 4 BPM @ 280 PSI. WE HAD GOOD CIRCULATION.
Event	16	Check Weight	Check Weight	3/15/2018	19:21:00	USER	168.30	11.57	4.00	TUNED SPACER VERIFIED BY PRESSURIZED MUD BALANCE.
Event	17	Drop Bottom Plug	Drop Bottom Plug	3/15/2018	19:25:00	USER	734.30	12.62	8.00	DROPPED 5.5" BOTTOM PLUG. WE DROPPED THE BOTTOM PLUG ON THE FLY DURING THE LAST 10 BBLS OF TUNED SPACER. PLUG DROPPED BY BRYCE MUIR AND WITNESSED BY THE COMPANY MAN.
Event	18	Pump Lead Cement	Pump Lead Cement	3/15/2018	19:26:34	COM6	413.30	13.63	6.30	PUMP 283 BBLS OF LEAD CEMENT. 1012 SACKS @ 13.2 #/GAL 1.57 CUFT/SK 7.54 GAL/SK. WE PUMPED LEAD CEMENT AT 8 BPM @ 560 PSI. WE HAD GREAT CIRCULATION.
Event	19	Check Weight	Check Weight	3/15/2018	19:30:00	USER	409.30	13.17	7.00	LEAD CEMENT VERIFIED BY PRESSURIZED MUD BALANCE.
Event	20	Pump Tail Cement	Pump Tail Cement	3/15/2018	20:03:51	COM6	422.30	13.18	8.00	PUMPED 388 BBLS OF TAIL CEMENT. 1068 SACKS @ 13.2 #/GAL 2.04 CUFT/SK 9.77 GAL/SK. WE PUMPED TAIL CEMENT AT 8 BPM @ 470 PSI. WE HAD GREAT CIRCULATION.
Event	21	Check Weight	Check Weight	3/15/2018	20:10:00	USER	476.30	13.20	8.00	TAIL CEMENT VERIFIED BY PRESSURIZED MUD BALANCE.
Event	22	Shutdown	Shutdown	3/15/2018	20:53:00	USER	309.30	13.30	6.00	WASH PUMPS AND LINES.
Event	23	Drop Top Plug	Drop Top Plug	3/15/2018	20:56:04	COM6	63.30	13.34	0.00	DROPPED 5.5" TOP PLUG. PLUG DROPPED BY BRYCE MUIR AND WITNESSED BY THE COMPANY MAN.
Event	24	Pump Displacement	Pump Displacement	3/15/2018	21:03:23	COM6	43.30	-0.23	0.00	WE PUMPED 347 BBLS OF FRESH WATER DISPLACEMENT. WE ADDED MMCR TO THE FIRST 20 BBLS OF

DISPLACEMENT. THE REMAINING 327 BBLS WE ADDED BIO-CIDE. WE PUMPED DISPLACEMENT AT 10 BPM @ 1300 PSI. WE MONITORED RATE AND PRESSURE AS WE PUMPED. WE MADE THE PROPER ADJUSTMENTS TO OUR PUMP RATE AS NEEDED.

Event	25	Displ Reached Cement	Displ Reached Cement	3/15/2018	21:05:00	USER	-2.70	-0.46	0.00	TOP PLUG REACH CEMENT AT 15 BBLS DISPLACEMENT PUMPED. WE GOT GOOD TUNED SPACER TO SURFACE AT 290 BBLS PUMPED AND WE GOT GOOD CEMENT TO SURFACE AT 330 BBLS DISPLACEMENT PUMPED. WE LANDED THE PLUG AT 340 BBLS PUMPED. WE GOT 40 BBLS OF TUNED SPACER TO SURFACE AND 10 BBLS OF GOOD CEMENT. CALCULATED TO OF TAIL CEMENT IS 6295 FFET.
Event	26	Bump Plug	Bump Plug	3/15/2018	21:52:13	COM6	2083.30	8.35	0.00	LANDED THE PLUG AT 2447 PSI AND PRESSURED UP TO 3000 PSI. WE HELD PRESSURE FOR LESS THAN 1 MINUTE.
Event	27	Shutdown	Shutdown	3/15/2018	21:52:15	USER	2073.30	8.35	0.00	
Event	28	Other	Other	3/15/2018	21:53:00	USER	1799.30	8.33	0.00	WE ENGAGED OUR PUMPS TO PRESSURE UP AND RUPTURE THE DISC TO PUMP A 6 BBL WET SHOE. WE RUPTURED THE DISC AT 2 BPM @ 4802 PSI. WE INCREASED OUR PUMP RATE TO 5 BPM @ 2530 PSI.
Event	29	Shutdown	Shutdown	3/15/2018	21:54:00	USER				
Event	30	Check Floats	Check Floats	3/15/2018	21:55:00	USER	-1.70	8.33	0.00	FLOATS HELD AND WE GOT 2 1/2 BBLS BACK TO THE RCM.
Event	31	End Job	End Job	3/15/2018	21:56:01	COM6				
Event	32	Pre-Rig Down Safety Meeting	Pre-Rig Down Safety Meeting	3/15/2018	22:15:00	USER				DISCUSS HAZARDS ASSOCIATED WITH RIGGING DOWN AND PACKING IRON ON LOCATION.
Event	33	Rig-Down Equipment	Rig-Down Equipment	3/15/2018	22:30:00	USER				
Event	34	Pre-Convoy Safety Meeting	Pre-Convoy Safety Meeting	3/15/2018	23:40:00	USER				DISCUSS HAZARDS ASSOCIATED WITH DRIVING TRUCKS BACK TO THE SERVICE CENTER. DISCUSSED ROUTE OF TRAVEL, CONVOY ORDER, AND PLACES TO STOP IF NEEDED.
Event	35	Depart Location for Service Center or Other Site	Depart Location for Service Center or Other Site	3/15/2018	23:55:00	USER				JOB WAS COMPLETED SAFELY BY BRYCE MUIR AND CREW. THANK YOU FOR USING HALLIBURTON ENERGY SERVICES. STAY SAFE OUT HERE.

3.0 Attachments

3.1 Custom Results – Job Chart with Events



3.2 Custom Results – Job Chart without Events

