

HALLIBURTON

iCem[®] Service

SRC ENERGY INC-EBUS

Date: Monday, January 29, 2018

Boomerang 33N-6C-M Production

Job Date: Thursday, January 25, 2018

Sincerely,

Bryce Hinsch

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1.0 Cementing Job Summary

1.1 Executive Summary

Halliburton appreciates the opportunity to perform the cementing services on the **Boomerang 33N-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 32 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 #: 3823669		Quote #:		Sales Order #: 0904587923				
Customer: SRC ENERGY INC-EBUS						Customer Rep: Tony Pershall				
Well Name: BOOMERANG			Well #: 33N-6C-M			API/UWI #: 05-123-45393-00				
Field: WATTENBERG		City (SAP): GREELEY		County/Parish: WELD		State: COLORADO				
Legal Description: NE NW-5-5N-66W-1421FNL-2327FWL										
Contractor: Precision				Rig/Platform Name/Num: Precision 462						
Job BOM: 7523 7523										
Well Type: HORIZONTAL OIL										
Sales Person: HALAMERICA\HB41307				Srvc Supervisor: Luke Kosakewich						
Job										
Formation Name										
Formation Depth (MD)		Top				Bottom				
Form Type						BHST				
Job depth MD		15626ft				Job Depth TVD		6963ft		
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	1829	0	1829
Casing		5.5	4.778	20		P-110	0	15612	0	0
Open Hole Section			8.5				1829	15626	1829	6936
Tools and Accessories										
Type	Size in	Qty	Make	Depth ft		Type	Size in	Qty	Make	
Guide Shoe						Top Plug	5.5	1	Weatherford	
Float Shoe	5.5			15612		Bottom Plug	5.5	1	Weatherford	
Float Collar	5.5			15499		SSR plug set				
Insert Float						Plug Container	5.5	1	HES	
Stage Tool						Centralizers				
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		
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	1015	sack	13.2	1.57		8	7.54
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
3	NeoCem	NeoCem TM	1082	sack	13.2	2.04		8	9.77
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
4	MMCR Displacement	MMCR Displacement	10	bbl	8.34			8	
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
5	Water	Fresh Water W/ BE3 & Clayweb	334	bbl	8.33			8	
Cement Left In Pipe		Amount	0 ft		Reason			Wet Shoe	
Comment Had full returns throughout the job. Got 32 bbls. of Cement to surface. Pressured up to 4,705 psi. to burst the plug. Pumped 6 bbls. for a wet shoe. Floats held. Got 3 bbls. of fluid back to the truck.									

2.0 Real-Time Job Summary

2.1 Job Event Log

Type	Seq. No.	Activity	Graph Label	Date	Time	Source	Comb Pump Rate (bbl/min)	DS Pump Press (psi)	Pump Stg Tot (bbl)	DH Density (ppg)	Comments
Event	1	Call Out	Call Out	1/25/2018	04:00:00	USER					Crew was called out at 04:00 for an on location time of 08:00.
Event	2	Depart Location Safety Meeting	Depart Location Safety Meeting	1/25/2018	07:05:00	USER					Crew held a pre journey safety meeting and JSA.
Event	3	Depart Shop for Location	Depart Shop for Location	1/25/2018	07:15:00	USER					Started journey management with dispatch and left location.
Event	4	Arrive at Location from Service Center	Arrive at Location from Service Center	1/25/2018	08:15:00	USER					Crew performed a site assessment and hazard hunt on location. Checked in with the customer and discussed the job procedures, rig up and well bore schematics to calculate the job. The rig was running casing.
Event	5	Other	Other	1/25/2018	08:20:00	USER					
Event	6	Pre-Rig Up Safety Meeting	Pre-Rig Up Safety Meeting	1/25/2018	08:25:00	USER					The crew held a pre rig up safety meeting and JSA.
Event	7	Rig-Up Equipment	Rig-Up Equipment	1/25/2018	08:30:00	USER					The crew rigged up all lines, hoses and equipment for the job.
Event	8	Safety Meeting	Safety Meeting	1/25/2018	10:50:00	USER	0.00	19.00	0.0	0.00	All personnel on location held a pre cement job safety meeting and JSA.
Event	9	Start Job	Start Job	1/25/2018	11:11:26	COM4	0.00	19.00	13.1	8.47	Pumped 3 bbls. of fresh water to fill lines and establish circulation.

Event	10	Test Lines	Test Lines	1/25/2018	11:17:22	COM4	0.00	52.00	16.4	8.56	Pressure tested lines to 6,000 psi. with a 500 psi. electronic kick out test.
Event	11	Pump Spacer 1	Pump Spacer 1	1/25/2018	11:25:56	COM4	0.00	29.00	16.4	8.47	Pressure tested lines to 6,000 psi. with a 500 psi. electronic kick out test.
Event	12	Drop Bottom Plug	Drop Bottom Plug	1/25/2018	11:35:02	COM4	3.70	249.00	32.3	12.37	Dropped the bottom plug, which was witnessed by the customer.
Event	13	Pump Lead Cement	Pump Lead Cement	1/25/2018	11:35:09	COM4	3.70	265.00	32.7	12.52	Pumped 284 bbls. (1015 sks.) of Elasticem mixed at 13.2 ppg., Yield: 1.57 ft3/sks, 7.54 gal/sks. Density was verified by pressurized scales.
Event	14	Check Weight	Check weight	1/25/2018	11:38:08	COM4	5.90	430.00	15.8	13.37	Cement weight up at 13.2 ppg.
Event	15	Pump Tail Cement	Pump Tail Cement	1/25/2018	12:14:59	COM4	7.70	673.00	286.8	13.15	Pumped 393 bbls. (1082 sks.) of Neocem mixed at 13.2 ppg. Yield: 2.04 ft3/sks, 9.77 gal/sks. Density was verified by pressurized scales.
Event	16	Check Weight	Check weight	1/25/2018	12:17:25	COM4	8.00	834.00	19.4	13.17	Cement weight up at 13.2 ppg.
Event	17	Shutdown	Shutdown	1/25/2018	13:05:03	COM4					Washed pumps and lines until clean.
Event	18	Drop Top Plug	Drop Top Plug	1/25/2018	13:16:22	COM4					Dropped the top plug, which was witnessed by the customer.
Event	19	Pump Displacement	Pump Displacement	1/25/2018	13:16:25	COM4					Pumped 344.1 bbls. of fresh water with MMCR in the first 10 bbls., Biocide and Clayweb throughout the rest of displacement.

Event	20	Bump Plug	Bump Plug	1/25/2018	14:03:32	COM4					Bumped the plug at 500 psi. over 2,500 psi. at 5 bpm. Finale pressure was 3,000 psi.
Event	21	Pressure Up Well	Pressure Up Well	1/25/2018	14:04:52	COM4	0.00	3123.00	336.4	8.16	Pressured up the well to 4,705 psi. to burst the plug.
Event	22	Other	Other	1/25/2018	14:06:04	USER	2.30	4648.00	338.2	8.17	Pumped 6 bbls. of fresh water for a wet shoe.
Event	23	Check Floats	Check Floats	1/25/2018	14:07:32	USER	3.60	2317.00	343.1	8.16	Bled off pressure to check floats. Floats held and got 3 bbls. of fluid back to the truck.
Event	24	End Job	End Job	1/25/2018	14:09:01	COM4	0.00	-11.00	344.2	8.07	Washed and blew down lines until clean and dry.
Event	25	Pre-Rig Down Safety Meeting	Pre-Rig Down Safety Meeting	1/25/2018	14:15:00	USER	0.00	101.00	11.5	8.12	Halliburton cement crew held a pre rig down safety meeting and JSA.
Event	26	Rig-Down Equipment	Rig-Down Equipment	1/25/2018	14:20:00	USER	0.00	-15.00	11.5	8.12	Rigged down all lines, hoses and equipment.
Event	27	Depart Location Safety Meeting	Depart Location Safety Meeting	1/25/2018	16:00:00	USER					Held a pre journey safety meeting with the crew.
Event	28	Depart Location for Service Center or Other Site	Depart Location for Service Center or Other Site	1/25/2018	16:15:00	USER					Started journey management with dispatch and left location.

3.0 Attachments

3.1 Synergy Boomerang 33N-6C-M Production Job Chart

