HALLIBURTON

iCem® Service

SRC ENERGY RESOURCES CORPORATION

Harvesters State 5N-16B-M Production

Sincerely,

Meghan Jacobs

Legal Notice

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Table of Contents

1.0 Cementing Job Summary

1.1 Executive Summary

Halliburton appreciates the opportunity to perform the cementing services on the **Harvesters State 5N-16B-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 24bbls of cement 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 [Ft. Lupton]

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Cementing Job Summary

The Road to Excellence Starts with Safety

Sold To #: 359915	**Ship To #:** 3859011	**Quote #:**	**Sales Order #:** 0904874096
Customer: SRC ENERGY INC-EBUS		**Customer Rep:** Lovell Young	
Well Name: HARVESTERS STATE	**Well #:** 5N-16B-M		**API/UWI #:** 05-123-46373-00
Field: WATTENBERG	**City (SAP):** LUCERNE	**County/Parish:** WELD	**State:** COLORADO
Legal Description: SW NE-15-6N-66W-1773FNL-2334FEL			
Contractor: PRECISION DRLG		**Rig/Platform Name/Num:** PRECISION 462	
Job BOM: 7523 7523			
Well Type: HORIZONTAL OIL			
Sales Person: HALAMERICA\HB41307		**Srvc Supervisor:** Prince Perez	

Job

Formation Depth (MD)	**Top** 0	**Bottom**	14,927'
Job depth MD	14,918'	**Job Depth TVD**	7,036'
		Wk Ht Above Floor	5'

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	1830	0	1830
Casing		5.5	4.778	20	BTC	P-110	0	14918	0	0
Open Hole Section			8.5				1830	14927	1830	0

Tools and Accessories

Type	Size in	Qty	Make	Depth ft		Type	Size in	Qty	Make
Guide Shoe	5.5	1		14,918		Top Plug	5.5	1	WF
Float Shoe	5.5	1		14,927		Bottom Plug	5.5	1	WF
Float Collar	5.5	1		14,805					
						Plug Container	5.5	1	HES
						Centralizers	5.5	208	

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	Spacer	Tuned Spacer III	40	bbl	11.5	3.8	23.8	4	1,407

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	LEAD	ELASTICEM (TM) SYSTEM	1026	sack	13.2	1.57	7.54	8	7,736

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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
3	Tail	NeoCem TM	986	sack	13.2	2.04	9.77	8	9,633

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	Displacement	Fresh Water	328	bbl	8.34			8	

Cement Left In Pipe	Amount	0	Reason		6 BBL Wet Shoe
Mix Water:	7 pH	Mix Water Chloride:	<500 ppm	Mix Water Temperature:	64 °F
Cement Temperature:	## °F	Plug Displaced by:	8.34 lb/gal	Disp. Temperature:	64 °F
Plug Bumped?	Yes	Bump Pressure:	2,900 psi	Floats Held?	Yes
Cement Returns:	20 bbl	Returns Density:	11.5/13.2 lb/gal	Returns Temperature:	## °F
Comment					

2.0 Real-Time Job Summary

2.1 Job Event Log

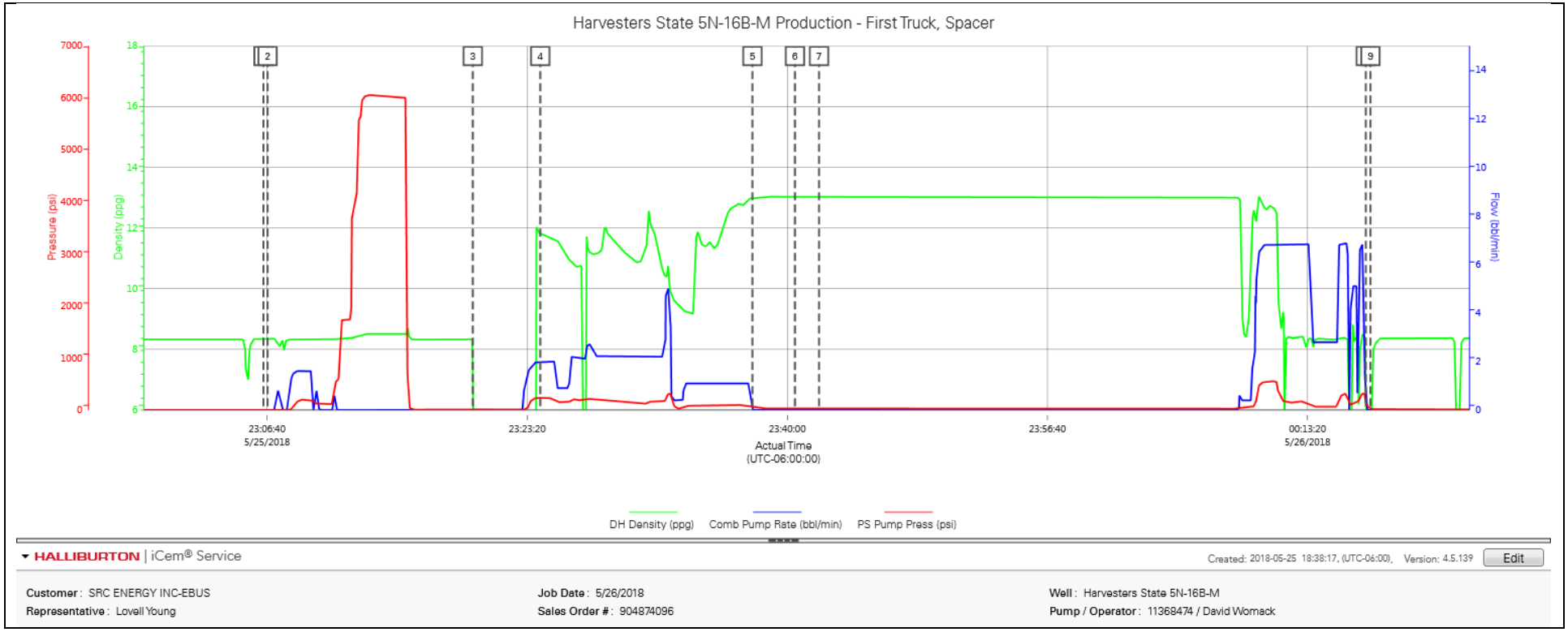
Type	Seq. No.	Activity	Graph Label	Date	Time	Source	DH Density (ppg)	Comb Pump Rate (bbl/min)	PS Pump Press (psi)	Comments
Event	1	Call Out	Call Out	5/25/2018	16:30:00	USER				CREW CALLED OUT AT 16:30, REQUESTED ON LOCATION 22:00. CREW PICKED UP CEMENT, CHEMICALS, AND PLUG CONTAINER FROM FT. LUPTON, CO. BULK 660 11764052, AND PUMP 11189145.
Event	2	Pre-Convoy Safety Meeting	Pre-Convoy Safety Meeting	5/25/2018	19:50:00	USER				CREW DISCUSSED ROUTES, HAZARDS, AND COMMUNICATION WITH CREW.
Event	3	Crew Leave Shop	Crew Leave Shop	5/25/2018	20:00:00	USER				STARTED JOURNEY MANAGEMENT.
Event	4	Arrive at Location from Service Center	Arrive at Location from Service Center	5/25/2018	21:15:00	USER				END JOURNEY MANAGEMENT. MEET WITH CO. MAN TO DISCUSS JOB; SURFACE CASING- 9.625” 36 LB/FT @ 1,830', 5.5" CASING: 20 LB/FT TOTAL 14,918’, 8.5" HOLE, TD 14,927', 122’ SHOE TRAC, TVD- 7,036’. PUMP FRESH WATER DISPLACEMENT. CASING LANDED @ 20:00 05/25/2018.
Event	5	Safety Meeting - Assessment of Location	Safety Meeting - Assessment of Location	5/25/2018	21:20:00	USER				HAZARD HUNT. DISCUSSED POSSIBLE HAZARDS ASSOCIATED WITH LOCATION, RIG UP, AND WEATHER.
Event	6	Rig-Up Equipment	Rig-Up Equipment	5/25/2018	21:30:00	USER				RIG UP BULK AND MIXING EQUIPMENT.
Event	7	Rig-Up Completed	Rig-Up Completed	5/25/2018	22:30:00	USER	0.00	0.00	-2.00	CREW STAGED EQUIPMENT AND RIGGED UP BULK, IRON AND WATER HOSES TO PERFORM JOB.
Event	8	Pre-Job Safety Meeting	Pre-Job Safety Meeting	5/25/2018	22:45:00	USER	8.33	10.40	289.00	MEETING WITH HALLIBURTON AND RIG PERSONNEL. COMMUNICATED POTENTIAL SAFETY HAZARDS AND JOB DETAILS.
Event	9	Start Job	Start Job	5/25/2018	23:06:26	COM4	8.35	0.00	1.00	BEGIN RECORDING JOB DATA.
Event	10	Test Lines	Test Lines	5/25/2018	23:06:42	COM4	8.35	0.00	2.00	PRESSURE TESTED IRON TO 6,000 PSI. KICKOUTS SET @ 500 PSI, KICKED OUT @ 520 PSI, 5TH GEAR STALL OUT @ 1,746 PSI. 6,000 PRESSURE TEST KICKED OUT @ 5,950 PSI.
Event	11	Check Weight	Check Weight	5/25/2018	23:19:51	COM4	8.33	0.00	4.00	SCALED AT REQUIRED WEIGHT.

Event	12	Pump Spacer 1	Pump Spacer 1	5/25/2018	23:24:10	COM4	11.85	2.00	240.00	PUMPED 25 BBLS OF TUNED SPACER III @ 11.5 LB/GAL, 10 GALS D-AIR, 20 GALLONS OF MUSOL, 20 GALLONS 0F DUAL B. 40 BBLS CALCULATED TO RETURN. DENSITY VERIFIED BY PRESSURIZED MUD SCALES. PUMP RATE 4 BBLS/MIN @ 510 PSI.
Event	13	Shutdown	Shutdown	5/25/2018	23:37:46	COM4	12.93	0.00	72.00	NOTICED PROBLEMS WITH THE CEMENT HEAD.
Event	14	Check Weight	Check Weight	5/25/2018	23:40:29	COM4	13.03	0.00	31.00	SCALED AT REQUIRED WEIGHT.
Event	15	Check Weight	Check Weight	5/25/2018	23:42:02	COM4	13.02	0.00	31.00	SCALED AT REQUIRED WEIGHT.
Event	16	Shutdown	Shutdown	5/26/2018	00:17:04	COM4	8.33	0.00	145.00	CALLED FOR BACK UP PUMP.
Event	17	End Job	End Job	5/26/2018	00:17:22	COM4	0.59	0.00	28.00	WAITED ON 20 BBLS OF SPACER AND THE BACK UP PUMP TO ARRIVE ON LOCATION.
Event	18	Start Job	Start Job	5/26/2018	04:28:18	COM4	8.11	0.90	2.00	20 BBLS OF SPACER AND BACKUP PUMP ARRIVED ON LOCATION. BEGIN RECORDING JOB DATA.
Event	19	Other	Other	5/26/2018	04:30:47	COM4	8.05	0.90	16.00	FILL LINES.
Event	20	Test Lines	Test Lines	5/26/2018	04:34:11	COM4	8.21	0.00	6004.00	PRESSURE TESTED IRON TO 6,000 PSI. KICKOUTS SET @ 500 PSI, KICKED OUT @ 520 PSI, 5TH GEAR STALL OUT @ 1,746 PSI. 6,000 PRESSURE TEST KICKED OUT @ 5,950 PSI.
Event	21	Check Weight	Check Weight	5/26/2018	04:36:08	COM4	8.11	0.00	70.00	SCALED AT REQUIRED WEIGHT.
Event	22	Pump Spacer 1	Pump Spacer 1	5/26/2018	04:38:26	COM4	8.11	0.00	1.00	PUMPED 40 BBLS OF TUNED SPACER III @ 11.5 LB/GAL, 10 GALS D-AIR, 20 GALLONS OF MUSOL, 20 GALLONS 0F DUAL B. 40 BBLS CALCULATED TO RETURN. DENSITY VERIFIED BY PRESSURIZED MUD SCALES. PUMP RATE 4 BBLS/MIN @ 510 PSI.
Event	23	Check Weight	Check Weight	5/26/2018	04:47:49	COM4	12.36	5.80	482.00	SCALED AT REQUIRED WEIGHT.
Event	24	Pump Lead Cement	Pump Lead Cement	5/26/2018	04:47:59	COM4	12.55	5.80	483.00	PUMPED 1,026 SKS OF ELASTICEM @ 13.2 LB/GAL, 1.57 FT3/SK, 7.54 GAL/SK. 286.89 BBLS, 20 BBLS CALCULATED TO SURFACE. DENSITY VERIFIED BY PRESSURIZED MUD SCALES. PUMP RATE 8 BBLS/MIN @ 560 PSI
Event	25	Check Weight	Check Weight	5/26/2018	04:57:51	COM4	12.65	2.80	100.00	SCALED AT REQUIRED WEIGHT.
Event	26	Check Weight	Check Weight	5/26/2018	05:09:25	COM4	13.23	8.10	549.00	SCALED AT REQUIRED WEIGHT.
Event	27	Pump Tail Cement	Pump Tail Cement	5/26/2018	05:27:27	COM4	13.21	8.10	698.00	PUMPED 986 SKS OF ELASTICEM @ 13.2 LB/GAL, 2.04

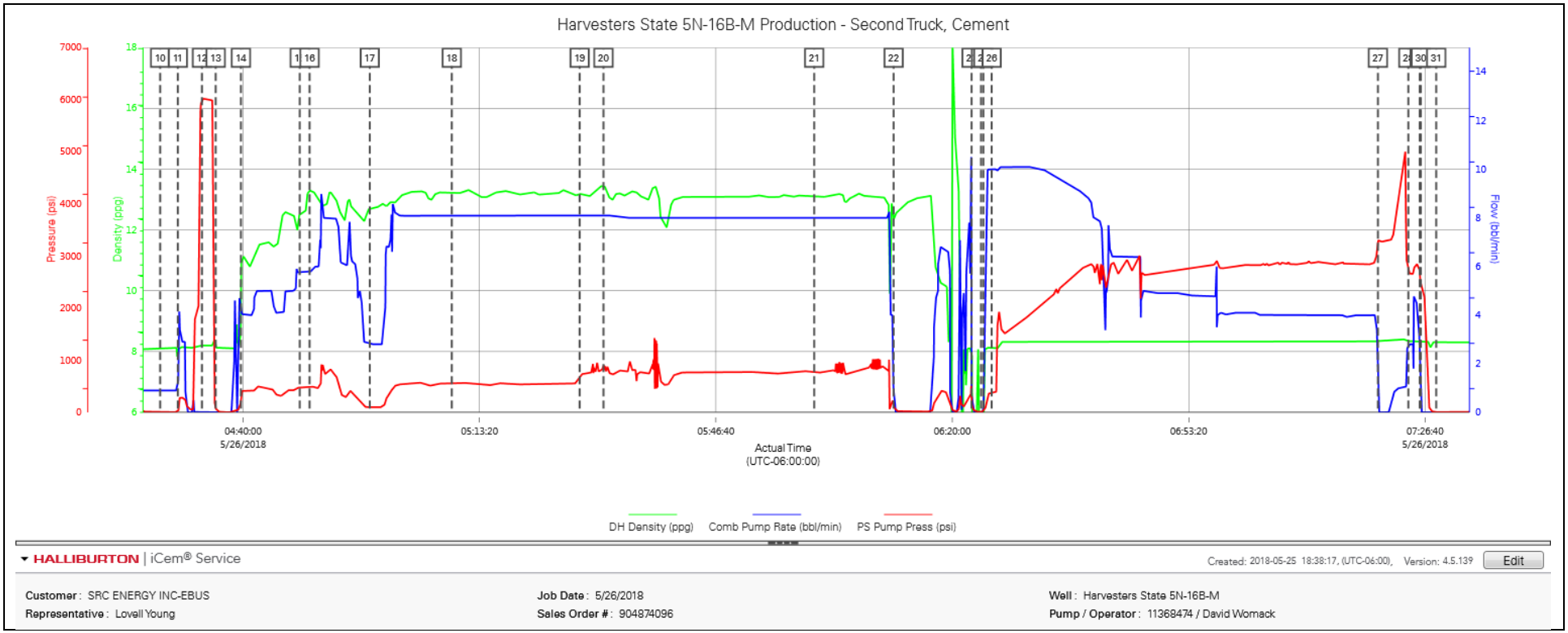
										FT3/SK, 9.77 GAL/SK, 358.24 BBLS. HOT CALCULATED @ 8,780', TOT CALCULATED @ 6,146.6'. DENSITY VERIFIED BY PRESSURIZED MUD SCALES. PUMP RATE 8 BBLS/MIN @ 790 PSI.
Event	28	Check Weight	Check Weight	5/26/2018	05:30:48	COM4	13.46	8.10	792.00	SCALED AT REQUIRED WEIGHT.
Event	29	Check Weight	Check Weight	5/26/2018	06:00:32	COM4	13.10	8.00	775.00	SCALED AT REQUIRED WEIGHT.
Event	30	Shutdown	Shutdown	5/26/2018	06:11:43	COM4	12.25	0.10	151.00	FINISHED PUMPING CEMENT.
Event	31	Clean Lines	Clean Lines	5/26/2018	06:22:43	COM4	8.11	0.70	256.00	
Event	32	Drop Top Plug	Drop Top Plug	5/26/2018	06:24:03	COM4	1.38	0.00	11.00	
Event	33	Pump Displacement	Pump Displacement	5/26/2018	06:24:22	COM4	4.83	0.00	11.00	BEGIN CALCULATED DISPLACEMENT OF 328.67 BBLS WITH FRESH WATER. PUMP RATE 8 BPM @ 2,800 PSI
Event	34	Displ Reached Cement	Displ Reached Cement	5/26/2018	06:25:33	COM4	8.12	10.00	386.00	CAUGHT CEMENT @ 20 BBLS INTO DISPLACEMENT.
Event	35	Bump Plug	Bump Plug	5/26/2018	07:20:01	COM4				PLUG BUMPED AT CALCULATED DISPLACEMENT. 2,903 PSI PRESSURED 500 PSI OVER BUMP.
Event	36	Other	Other	5/26/2018	07:24:18	COM4	8.34	2.80	2661.00	PRESSURED UP TO RUPTURE THE DISC @ 5,080 PSI
Event	37	Shutdown	Shutdown	5/26/2018	07:25:54	COM4	8.34	0.00	2662.00	
Event	38	Other	Other	5/26/2018	07:26:04	COM4	8.33	0.00	2447.00	PUMP 6 BBLS WET SHOE.
Event	39	End Job	End Job	5/26/2018	07:28:14	COM4				STOP RECORDING JOB DATA.
Event	40	Post-Job Safety Meeting (Pre Rig-Down)	Post-Job Safety Meeting (Pre Rig-Down)	5/26/2018	11:00:00	USER				DISCUSSED POSSIBLE HAZARDS ASSOCIATED WITH WEATHER, LOCATION AND RIGGING DOWN IRON AND HOSES.
Event	41	Rig-Down Equipment	Rig-Down Equipment	5/26/2018	11:15:00	USER				RIG DOWN BULK AND MIXING EQUIPMENT.
Event	42	Rig-Down Completed	Rig-Down Completed	5/26/2018	11:50:00	USER				ALL HALLIBURTON ITEMS WERE STOWED FOR TRAVEL, AND LOCATION WAS CLEAN.
Event	43	Crew Leave Location	Crew Leave Location	5/26/2018	12:00:00	USER				THANK YOU FOR USING HALLIBURTON – PRINCE PEREZ AND CREW.

3.0 Attachments

3.1 Harvesters State 5N-16B-M Production – Job Chart before New Pump Arrived



3.2 Harvesters State 5N-16B-M Production – Job Chart after New Pump Arrived with Events



3.3 Harvesters State 5N-16B-M Production – Job Chart after New Pump Arrived without Events