

HALLIBURTON

iCem[®] Service

HIGHPOINT RESOURCES CORP-EBUS

Date: Saturday, May 04, 2019

Wetco 4-63-5-5764DB Production Liner

Job Date: Sunday, March 31, 2019

Sincerely,
Tyler Hill

Legal Notice

Disclaimer:

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1.0 Cementing Job Summary

1.1 Executive Summary

Halliburton appreciates the opportunity to perform the cementing services on the **Wetco 4-63-5-5764DB** cement **Production Liner** 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.

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

The Road to Excellence Starts with Safety

Sold To #: 343492		Ship To #: 3917348		Quote #:		Sales Order #: 0905576996					
Customer: HIGHPOINT RESOURCES CORP-EBUS						Customer Rep: Dustin					
Well Name: WETCO			Well #: 4-63-05-5764DB			API/UWI #: 05-123-48493-00					
Field: WATTENBERG		City (SAP): KERSEY		County/Parish: WELD			State: COLORADO				
Legal Description: NW SW-4-4N-63W-2200FSL-701FWL											
Contractor: CADE DRLG					Rig/Platform Name/Num: CADE 23						
Job BOM: 7525 7525											
Well Type: HORIZONTAL OIL											
Sales Person: HALAMERICA\H139013					Srv Supervisor: Prince Perez						
Job											
Formation Depth (MD)		Top	0'		Bottom	16,844'					
Job depth MD		16,829'		Job Depth TVD	6,658'						
Water Depth				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	
Drill Pipe		4	3.34	14			0	6883		0	
Casing		7	6.366	23			0	7366		0	
Casing		4.5	4	11.6			6883	16829	0	0	
Open Hole Section			6.125				7366	16829	0	0	
Tools and Accessories											
Type	Size in	Qty	Make	Depth ft		Type	Size in	Qty	Make		
Guide Shoe	4.5	1		16,829		Top Plug	4.5	1	PP		
Float Shoe	4.5					Bottom Plug	4.5				
Float Collar	4.5	1		16,775.4		SSR plug set	4.5				
Insert Float	4.5					Plug Container	4.5				
Stage Tool	4.5					Centralizers	4.5				
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			20	bbl	11.5	3.86	24.7	6	719

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	Cement	NeoCem TM	169	bbl	13.2	2.04	9.75	8	4,529

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	Displacement	Fresh Water	205	bbl	8.33				

Cement Left In Pipe	Amount	0 ft	Reason	Wet Shoe	
Mix Water:	pH 6	Mix Water Chloride:	<300 ppm	Mix Water Temperature:	80 °F
Cement Temperature:	## °F	Plug Displaced by:	8.33 lb/gal	Disp. Temperature:	80 °F
Plug Bumped?	Yes	Bump Pressure:	1,1178 psi	Floats Held?	Yes
Cement Returns:	0 bbl	Returns Density:	9 lb/gal	Returns Temperature:	## °F

Comment

Pumped 20 bbls of Tuned Spacer III with 10 gallons of D-Air.

Pumped 168.95 bbls of Neocem.

Pumped 205 bbls of Displacement with 50 lbs of Oxygen, 10 gallons of Anhib II, and 3 lbs of BE-3 throughout.

Pumped a 6 bbl wet shoe.

Pumped 93 bbls of fresh water to circulate out.

No spacer to surface.

1 bbl back on the floats.

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	3/31/2019	08:30:00	USER				CREW CALLED OUT AT 8:30, REQUESTED ON LOCATION 14:00. CREW PICKED UP CEMENT, CHEMICALS, FROM FT. LUPTON, CO. BULK 660 10867521, 10867098, 10248062, AND PUMP 11189145.
Event	2	Pre-Convoy Safety Meeting	Pre-Convoy Safety Meeting	3/31/2019	12:10:00	USER				DISCUSSED ROUTES, HAZARDS, AND COMMUNICATION WITH CREW.
Event	3	Crew Leave Shop	Crew Leave Shop	3/31/2019	12:20:00	USER				STARTED JOURNEY MANAGEMENT.
Event	4	Arrive at Location from Service Center	Arrive at Location from Service Center	3/31/2019	13:30:00	USER				END JOURNEY MANAGEMENT. MET WITH COMPANY MAN AND TOOL HAND TO DISCUSS JOB DETAILS. TD-16,844', TP-16,834', LINER CASING-6,977.9', 11.6 LB/FT 4.5" P-110, 4.5" 37.37# HWDP-5,409.8', 4.5" 18.1# DP, PC-7,366' 7" 23 LB/FT, TOL DPIN SET @ 6,977.9', WF- 9 LB/GAL. NEW TP @ 14,557', NEW TOL @ 4,700', 4.5" 18.1# DP SET @ 3,132.8'.

Event	5	Safety Meeting - Assessment of Location	Safety Meeting - Assessment of Location	3/31/2019	13:40:00	USER				HAZARD HUNT. DISCUSSED POSSIBLE HAZARDS ASSOCIATED WITH LOCATION, RIG UP AND WEATHER.
Event	6	Rig-Up Equipment	Rig-Up Equipment	3/31/2019	13:50:00	USER				RIG UP BULK AND MIXING EQUIPMENT.
Event	7	Rig-Up Completed	Rig-Up Completed	3/31/2019	22:50:00	USER	0.00	0.00	-83.00	
Event	8	Pre-Job Safety Meeting	Pre-Job Safety Meeting	3/31/2019	23:00:00	USER	0.00	0.00	-83.00	MEETING WITH HALLIBURTON AND RIG PERSONNEL. COMMUNICATED POTENTIAL SAFETY HAZARDS AND JOB DETAILS.
Event	9	Start Job	Start Job	3/31/2019	23:25:23	COM4	8.38	0.00	-64.00	BEGIN RECORDING JOB DATA.
Event	10	Test Lines	Test Lines	3/31/2019	23:29:58	COM4	8.66	0.00	5005.00	PRESSURE TESTED IRON TO 5,000 PSI. KICKOUTS SET @ 500 PSI, KICKED OUT @ 1,550 PSI, 5TH GEAR STALL OUT @ 1,790 PSI. KICKOUTS SET @ 5,000 PSI, KICKED OUT @ 5,140 PSI.
Event	11	Pump Spacer 1	Pump Spacer 1	3/31/2019	23:37:09	COM4	8.45	0.00	-78.00	PUMP 20 BBLS OF TUNED SPACER @ 11.5 LB/GAL, 3.86 FT3/SK, 24.7 GAL/SK. HOS DPIN CALCULATED @ 1,015.2'. TOS DPIN CALCULATED @ 3,907'. DENSITY VERIFIED BY PRESSURIZED MUD SCALES. PUMP RATE 6 BBLS/MIN @ 640 PSI.
Event	12	Pump Cement	Pump Cement	3/31/2019	23:41:35	COM4	11.38	5.20	619.00	PUMP 465 SKS OF NEOCEM @ 13.2 LB/GAL, 2.04 FT3/SK, 9.74 GAL/SK, 168.95 BBLS, DENSITY VERIFIED BY

PRESSURIZED MUD SCALES.
TOC CALCULATED @
4,922.3', HOC CALCULATED
 @ 11,911.7'. PUMP RATE 6
 BBLS/MIN @ 480 PSI.

Event	13	Shutdown	Shutdown	4/1/2019	00:14:12	COM4	13.96	0.00	-12.00	SHUTDOWN TO DROP DART/CLEAN LINES.
Event	14	Pump Water	Pump Water	4/1/2019	00:25:40	COM4	-0.15	0.00	-79.00	PUMPED 5 BBLS OF CLEAN FRESH WATER.
Event	15	Drop Top Plug	Drop Top Plug	4/1/2019	00:34:03	COM4	8.19	0.00	-74.00	DART LOADED BY TOOL HAND.
Event	16	Pump Displacement	Pump Displacement	4/1/2019	00:35:08	COM4	8.17	0.90	-67.00	BEGIN DISPLACEMENT WITH 237 BBLS OF FRESH WATER AND 10 GALLONS OF MMCR IN THE FIRST 20 BBLS OF DISPLACEMENT, 50 LBS OF OXYGEN, 10 GALLONS OF ANHIB II, AND 3 LBS OF BE-3 THROUGHOUT. SLOW RATE TO 4.0 BBLS/MIN @ 50 BBLS TO LAND DART. PICKED UP PLUG @ 60 BBLS AWAY PRESSURE WAS 1,260 PSI. SLOW RATE TO 3 BBLS/MIN @ 180 BBLS TO BUMP PLUG.
Event	17	Other	Other	4/1/2019	00:45:52	USER	8.23	1.70	3861.00	DART LANDED AT 53 BBLS INTO DISPLACEMENT, SHEARD AT 3,861 PSI.
Event	18	Bump Plug	Bump Plug	4/1/2019	01:15:43	COM4	8.21	0.00	1178.00	PLUG BUMPED AT CALCULATED DISPLACEMENT. PRESSURED 500 PSI OVER FINAL CIRCULATING PRESSURE. SHUTDOWN FOR 2 MINUTES.

Event	19	Check Floats	Check Floats	4/1/2019	01:18:50	USER	8.16	0.00	198.00	RELEASED PRESSURE, FLOATS HELD, 1 BBL BACK.
Event	20	Shift Tool - Lower	Shift Tool - Lower	4/1/2019	01:21:06	USER	8.27	2.00	3779.00	SHEARED @ 3,779 PSI FOLLOWED BY A 1 BBL WET SHOE.
Event	21	Test Lines	Test Lines	4/1/2019	01:34:29	COM4	8.21	0.00	1997.00	PRESSURED UP TO 2,000 PSI AND HELD FOR 2 MINUTES.
Event	22	Circulate Well	Circulate Well	4/1/2019	01:44:22	COM4	8.18	0.90	93.00	BROUGHT UP PRESSURE TO 800 PSI THEN AFTER A PRESSURE DROP, CIRCULATED WELL WITH FRESH WATER TO CLEAN CEMENT AND SPACER FROM TOP OF HANGER. NO SPACER TO SURFACE.
Event	23	End Job	End Job	4/1/2019	01:58:19	COM4	8.21	0.00	-74.00	STOP RECORDING JOB DATA.
Event	24	Post-Job Safety Meeting (Pre Rig-Down)	Post-Job Safety Meeting (Pre Rig-Down)	4/1/2019	02:00:00	USER				DISCUSSED POSSIBLE HAZARDS ASSOCIATED WITH WEATHER, LOCATION AND RIGGING DOWN IRON AND HOSES.
Event	25	Rig-Down Equipment	Rig-Down Equipment	4/1/2019	02:10:00	USER				RIG DOWN BULK AND MIXING EQUIPMENT.
Event	26	Rig-Down Completed	Rig-Down Completed	4/1/2019	03:40:00	USER				
Event	27	Pre-Convoy Safety Meeting	Pre-Convoy Safety Meeting	4/1/2019	03:50:00	USER				DISCUSSED ROUTES, HAZARDS, AND COMMUNICATION WITH CREW.
Event	28	Crew Leave Location	Crew Leave Location	4/1/2019	04:00:00	USER				THANK YOU FOR USING HALLIBURTON – PRINCE A PEREZ AND CREW.

3.0 Attachments

3.1 Highpoint Wetco 4-63-5-5764DB Production Liner.png

