

HALLIBURTON

iCem[®] Service

HIGHPOINT RESOURCES CORP-EBUS

Date: Saturday, May 11, 2019

Anschutz Equus Farms 5-61-35-3340B Production

Job Date: Wednesday, May 08, 2019

Sincerely,
Tyler Hill

Legal Notice

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1.0 Cementing Job Summary

1.1 Executive Summary

Halliburton appreciates the opportunity to perform the cementing services on the **Anschutz Equus Farms 5-61-35-3340B** 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.

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 #: 3931225		Quote #:		Sales Order #: 0905680411					
Customer: HIGHPOINT RESOURCES CORP-EBUS				Customer Rep: Damien "Goose" Hunter							
Well Name: ANSCHUTZ EQUUS FARMS			Well #: 5-61-35-3340B		API/UWI #: 05-123-49226-00						
Field: WATTENBERG		City (SAP): ROGGEN		County/Parish: WELD		State: COLORADO					
Legal Description: NE SE-34-5N-61W-1686FSL-300FEL											
Contractor: CADE DRLG				Rig/Platform Name/Num: CADE 24							
Job BOM: 7523 7523											
Well Type: HORIZONTAL OIL											
Sales Person: HALAMERICA/H139013				Srv Supervisor: Prince Perez							
Job											
Formation Depth (MD)		Top 0'		Bottom		15,968'					
Job depth MD		15,961'		Job Depth TVD		5,831'					
Water Depth				Wk Ht Above Floor		10'					
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		7	6.366	23			0	6229	0	5831	
Casing		4.5	4	11.6	8 RD		0	15961	0	5831	
Open Hole Section			6.125				6229	15992	0	5831	
Tools and Accessories											
Type	Size in	Qty	Make	Depth ft		Type	Size in	Qty	Make		
Guide Shoe	4.5	1		15,961		Top Plug	4.5	1			
Float Shoe	4.5					Bottom Plug	4.5				
Float Collar	4.5	1		15,906.7		SSR plug set	4.5				
Insert Float	4.5					Plug Container	4.5				
Stage Tool	4.5					Centralizers	4.5	123			
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	Fresh Water	Fresh Water			30	bbl	8.33				

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	545	sack	13.2	2.04	9.74	6	9.74
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	246.6	bbl	8.33				
Cement Left In Pipe		Amount	0 ft		Reason			Wet Shoe	
Mix Water:	pH 7	Mix Water Chloride:	<300 ppm			Mix Water Temperature:	56 °F		
Cement Temperature:	## °F	Plug Displaced by:	8.33 lb/gal			Disp. Temperature:	56 °F		
Plug Bumped?	Yes	Bump Pressure:	1,500 psi			Floats Held?	Yes		
Cement Returns:	0 bbl	Returns Density:	9 lb/gal			Returns Temperature:	## °F		
Comment									
Pumped 30 bbls of Fresh water spacer.									
Pumped 198 bbls of Neocem with 10 gallons of D Air.									
Pumped 246.6 bbls of fresh water displacement with MMCR in the first 20 bbls and Oxygon, Anhib II, and BE-3 throughout.									
Pumped a 1 bbl wet shoe.									
½ a 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	5/7/2019	21:30:00	USER				CREW CALLED OUT AT 21:30, REQUESTED ON LOCATION 03:00. CREW PICKED UP CEMENT, CHEMICALS, AND PLUG CONTAINER FROM FT. LUPTON, CO. BULK 660, 10866497, 10784082, AND PUMP 11189145.
Event	2	Pre-Convoy Safety Meeting	Pre-Convoy Safety Meeting	5/8/2019	00:20:00	USER				CREW DISCUSSED ROUTES, HAZARDS, AND COMMUNICATION WITH CREW.
Event	3	Crew Leave Shop	Crew Leave Shop	5/8/2019	00:30:00	USER				STARTED JOURNEY MANAGEMENT.
Event	4	Arrive at Location from Service Center	Arrive at Location from Service Center	5/8/2019	02:00:00	USER				END JOURNEY MANAGEMENT. MEET WITH CO. MAN TO DISCUSS JOB; SURFACE CASING- 7" 23 LB/FT @ 2,954', 4.5" CASING: 11.6 LB/FT TOTAL 15,961', 6 1/8" HOLE, TD 15,968', 54.3' SHOE TRAC, TVD- 5,831'. PUMP FRESH WATER DISPLACEMENT. CASING LANDED @ 01:10 5/8/2019.
Event	5	Safety Meeting - Assessment of Location	Safety Meeting - Assessment of Location	5/8/2019	02:10:00	USER				HAZARD HUNT. DISCUSSED POSSIBLE HAZARDS ASSOCIATED WITH

										LOCATION, RIG UP AND WEATHER.
Event	6	Rig-Up Equipment	Rig-Up Equipment	5/8/2019	02:20:00	USER				RIG UP BULK AND MIXING EQUIPMENT.
Event	7	Pre-Job Safety Meeting	Pre-Job Safety Meeting	5/8/2019	03:00:00	USER	0.00	0.00	-2.00	MEETING WITH HALLIBURTON AND RIG PERSONNEL. COMMUNICATED POTENTIAL SAFETY HAZARDS AND JOB DETAILS.
Event	8	Rig-Up Completed	Rig-Up Completed	5/8/2019	03:15:00	USER	8.28	10.60	483.00	
Event	9	Start Job	Start Job	5/8/2019	03:19:15	COM4	8.37	0.00	4.00	BEGIN RECORDING JOB DATA.
Event	10	Test Lines	Test Lines	5/8/2019	03:24:13	COM4	8.47	0.00	4741.00	PRESSURE TESTED IRON TO 4,500 PSI. KICKOUTS SET @ 500 PSI, KICKED OUT @ 510 PSI, 5TH GEAR STALL OUT @ 1,840 PSI. 4,500 PRESSURE TEST KICKED OUT @ 4,450 PSI
Event	11	Pump Spacer 1	Pump Spacer 1	5/8/2019	03:29:25	COM4	8.33	0.00	12.00	PUMP 30 BBLS OF FRESH WATER SPACER III @ 8.33 LB/GAL. HOS CALCULATED @ 1,522.8'. TOS CALCULATED @ 2,954.3'. PUMP RATE 5.5 BBLS/MIN @ 1,030 PSI.
Event	12	Pump Cement	Pump Cement	5/8/2019	03:38:35	COM4	13.58	6.20	1394.00	PUMP 545 SKS OF NEOCEM @ 13.2 LB/GAL, 2.04 FT3/SK, 9.74 GAL/SK, 198 BBLS. HOC CALCULATED @ 11,483.9', TOC CALCULATED @ 4,477.1' . DENSITY VERIFIED BY PRESSURIZED MUD SCALES. PUMP RATE 8 BBLS/MIN @ 530 PSI.

Event	13	Shutdown	Shutdown	5/8/2019	04:19:25	COM4	13.39	0.00	17.00	SHUTDOWN TO WASH LINES.
Event	14	Drop Top Plug	Drop Top Plug	5/8/2019	04:33:05	COM4	8.33	0.00	2.00	PLUG LEFT CONTAINER, VERIFIED BY CO. MAN.
Event	15	Pump Displacement	Pump Displacement	5/8/2019	04:33:09	COM4	8.32	0.00	2.00	BEGIN CALCULATED DISPLACEMENT OF 246.6 BBLS WITH FRESH WATER. MMCR IN THE FIRST 20 BBLS, OXYGON, ANHIB II, AND BE-3 THROUGHOUT. PUMP RATE 5 BPM @ 1,480 PSI. CAUGHT CEMENT @ 30 BBLS INTO DISPLACEMENT. NO SPACER TO SURFACE. SLOW RATE TO 3 BPM @ 200 BBLS INTO DISPLACEMENT.
Event	16	Bump Plug	Bump Plug	5/8/2019	05:38:04	COM4	8.22	0.00	1922.00	PLUG BUMPED AT CALCULATED DISPLACEMENT. 1,500 PSI PRESSURED 500 PSI OVER BUMP.
Event	17	Test Lines	Test Lines	5/8/2019	05:40:15	COM4	8.21	0.00	2030.00	CASING TEST FOR 5 MINUTES @ 2,000 PSI.
Event	18	Shift Tool - Lower	Shift Tool - Lower	5/8/2019	05:44:20	USER	8.25	1.90	2899.00	SHEARED @ 2,899 PSI FOLLOWED BY A 1 BBL WET SHOE.
Event	19	Check Floats	Check Floats	5/8/2019	05:45:23	USER	8.16	0.00	393.00	RELEASED PRESSURE, FLOATS HELD, ½ A BBL BACK.
Event	20	End Job	End Job	5/8/2019	05:46:05	COM4	8.16	0.00	5.00	STOP RECORDING JOB DATA.
Event	21	Post-Job Safety Meeting (Pre Rig-Down)	Post-Job Safety Meeting (Pre Rig-Down)	5/8/2019	06:00:00	USER				DISCUSSED POSSIBLE HAZARDS ASSOCIATED WITH WEATHER, LOCATION AND RIGGING DOWN IRON AND HOSES.

Event	22	Rig-Down Equipment	Rig-Down Equipment	5/8/2019	06:10:00	USER	RIG DOWN BULK AND MIXING EQUIPMENT.
Event	23	Rig-Down Completed	Rig-Down Completed	5/8/2019	07:40:00	USER	
Event	24	Pre-Convoy Safety Meeting	Pre-Convoy Safety Meeting	5/8/2019	07:50:00	USER	CREW DISCUSSED ROUTES HAZARDS AND COMMUNICATION WITH CREW.
Event	25	Crew Leave Location	Crew Leave Location	5/8/2019	08:00:00	USER	THANK YOU FOR USING HALLIBURTON – PRINCE PEREZ AND CREW.

3.0 Attachments

3.1 Highpoint Anschutz Equus Farms 5-61-35-3340B.png

