

# HALLIBURTON

iCem<sup>®</sup> Service

**HIGHPOINT RESOURCES CORP-EBUS**

United States of America, COLORADO

Date: Tuesday, April 23, 2019

**Anshutz Equus Farms Fed 5-61-35-4841B Intermediate**

Sincerely,  
**Tyler Hill**

## Legal Notice

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### Disclaimer:

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## 1.0 Cementing Job Summary

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### 1.1 Executive Summary

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Halliburton appreciates the opportunity to perform the cementing services on the **Anschutz Equus Farms 5-61-35-4841B** 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 12 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*

<b>Sold To #:</b> 343492		<b>Ship To #:</b> 3931143		<b>Quote #:</b>		<b>Sales Order #:</b> 0905648968				
<b>Customer:</b> HIGHPOINT RESOURCES CORP-EBUS					<b>Customer Rep:</b> Chris Moore					
<b>Well Name:</b> ANSCHUTZ EQUUS FARMS			<b>Well #:</b> 5-61-35-4841B			<b>API/UWI #:</b> 05-123-49225-00				
<b>Field:</b> WATTENBERG		<b>City (SAP):</b> ROGGEN		<b>County/Parish:</b> WELD			<b>State:</b> COLORADO			
<b>Legal Description:</b> NE SE-34-5N-61W-1686FSL-345FEL										
<b>Contractor:</b> CADE DRLG					<b>Rig/Platform Name/Num:</b> CADE 24					
<b>Job BOM:</b> 7522 7522										
<b>Well Type:</b> HORIZONTAL OIL										
<b>Sales Person:</b> HALAMERICA/H139013					<b>Srv Supervisor:</b> Thomas Haas					
<b>Job</b>										
<b>Formation Name</b>										
<b>Formation Depth (MD)</b>		<b>Top</b>			<b>Bottom</b>					
<b>Form Type</b>					<b>BHST</b>					
<b>Job depth MD</b>		6210ft			<b>Job Depth TVD</b>		5844			
<b>Water Depth</b>					<b>Wk Ht Above Floor</b>		5			
<b>Perforation Depth (MD)</b>		<b>From</b>			<b>To</b>					
<b>Well Data</b>										
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	0	9.625	8.921	36			0	1007	0	1007
Casing	0	7	6.366	23			0	6210	0	5844
Open Hole Section			8.75				1007	6235	1007	5844
<b>Tools and Accessories</b>										
Type	Size in	Qty	Make	Depth ft		Type	Size in	Qty	Make	
						<b>Top Plug</b>	7	1		
<b>Float Shoe</b>	7	1		6210						
<b>Float Collar</b>	7	1		6165						
						<b>Plug Container</b>	7	1	HES	
<b>Fluid Data</b>										
<b>Stage/Plug #:</b> 1										

Fluid #	Stage Type	Fluid Name	Qty	Qty UoM	Mixing Density lbm/gal	Yield ft <sup>3</sup> /sack	Mix Fluid Gal	Rate bbl/min	Total Mix Fluid Gal	
1	Water Based Spacer	Water Based Spacer	40	bbl	8.33			5		
Fluid #	Stage Type	Fluid Name	Qty	Qty UoM	Mixing Density lbm/gal	Yield ft <sup>3</sup> /sack	Mix Fluid Gal	Rate bbl/min	Total Mix Fluid Gal	
2	13.2# ElastiCem	ELASTICEM (TM) SYSTEM	740	sack	13.2	1.57	7.53	8	5572	
	7.53 Gal	<b>FRESH WATER</b>								
Fluid #	Stage Type	Fluid Name	Qty	Qty UoM	Mixing Density lbm/gal	Yield ft <sup>3</sup> /sack	Mix Fluid Gal	Rate bbl/min	Total Mix Fluid Gal	
3	Displacement fluid	FRESH WATER	242	bbl	8.33					
<b>Cement Left In Pipe</b>		<b>Amount</b>	45 ft		<b>Reason</b>			<b>Shoe Joint</b>		
Mix Water:		pH 7	Mix Water Chloride:		<300 ppm		Mix Water Temperature:			61 °F
Cement Temperature:		N/A	Plug Displaced by:		8.33 lb/gal F.W.		Disp. Temperature:			63 °F
Plug Bumped?		Yes	Bump Pressure:		1800 psi		Floats Held?			Yes
Cement Returns:		12 bbl	Returns Density:		N/A		Returns Temperature:			N/A
<b>Comment</b> Plug bumped at calculated displacement, final circulating pressure of 1800 psi, held 5 min casing test at 2400 psi, released pressure back to the truck, floats held, 2 bbl back, pressured up to 2000 psi held it for 15 min, released pressure, 2 bbl back. 12 bbl of cement to surface.										

## 2.0 Real-Time Job Summary

### 2.1 Job Event Log

Type	Seq. No.	Activity	Graph Label	Date	Time	Source	DH Density <i>(ppg)</i>	Comb Pump Rate <i>(bbl/min)</i>	DS Pump Press <i>(psi)</i>	Pump Stg Tot <i>(bbl)</i>	Comments
Event	1	Call Out	Call Out	4/23/2019	09:00:00	USER					CREW CALLED OUT AT 9:00 4/23/2019, REQUESTED ON LOCATION 15:00 4/23/2019. CREW PICKED UP CEMENT, 100 LBS SUGAR, AND PLUG CONTAINER FROM FORT LUPTON, CO. BULK 660: 111027111/11398319 Bulk 660: 12350112/10867096, ELITE: 11897034/11645460.
Event	2	Pre-Convoy Safety Meeting	Pre-Convoy Safety Meeting	4/23/2019	12:45:00	USER					DISCUSSED ROUTES, HAZARDS, AND COMMUNICATION WITH CREW
Event	3	Crew Leave Yard	Crew Leave Yard	4/23/2019	13:00:00	USER					STARTED JOURNEY MANAGEMENT.
Event	4	Arrive At Loc	Arrive At Loc	4/23/2019	14:30:00	USER					END JOURNEY MANAGEMENT. MEET WITH CO. MAN TO DISCUSS JOB; SURFACE CASING: 9.625" 36# @ 1007', CASING: 7" 23# @ 6210', 45' SHOE JOINT, 8.75" OPEN HOLE, TVD @ 5844', 10 PPG WELL FLUID, FRESH WATER DISPLACEMENT.
Event	5	Pre-Rig Up Safety Meeting	Pre-Rig Up Safety Meeting	4/23/2019	14:40:00	USER					HAZARD HUNT. DISCUSSED POSSIBLE HAZARDS ASSOCIATED WITH LOCATION, RIG UP AND WEATHER.

Event	6	Rig-Up Equipment	Rig-Up Equipment	4/23/2019	14:50:00	USER					CREW STAGED EQUIPMENT AND RIGGED UP BULK, IRON, AND WATER HOSES TO PERFORM JOB.
Event	7	Pre-Job Safety Meeting	Pre-Job Safety Meeting	4/23/2019	17:30:00	USER	8.44	0.00	-1.00	4.30	MEETING WITH HALLIBURTON AND RIG PERSONNEL. COMMUNICATED POTENTIAL SAFETY HAZARDS AND JOB DETAILS.
Event	8	Start Job	Start Job	4/23/2019	18:04:32	COM4					START JOB DATA RECORDING.
Event	9	Test Lines	Test Lines	4/23/2019	18:05:54	COM4	8.40	0.00	43.00	1.20	PRESSURE TESTE LINES TO 4000 PSI, 500 KICK OUT AT 900 PSI, 5TH GEAR STALL OUT AT 2200 PSI.
Event	10	Pump Spacer 1	Pump Spacer 1	4/23/2019	18:09:11	COM4	8.42	0.00	6.00	0.00	PUMP 40 BBL FRESH WATER, RED DYE ADDED TO THE LAST 15 BBL.
Event	11	Pump Cement	Pump Cement	4/23/2019	18:18:05	COM4	13.16	5.40	572.00	2.60	PUMP 740 SKS OF ELASTICEM @ 13.2 LB/GAL, 1.57 YIELD, 7.54 GAL/SK, 206.9 BBLS, CALCULATED TOL @ SURFACE. DENSITY VERIFIED BY PRESSURIZED MUD SCALES.
Event	12	Shutdown	Shutdown	4/23/2019	18:46:30	COM4	13.92	0.40	62.00	215.70	SHUTDOWN TO DROP TOP PLUG.
Event	13	Drop Top Plug	Drop Top Plug	4/23/2019	18:49:13	COM4	-0.10	0.00	9.00	215.80	TOP PLUG LEFT PLUG CONTIANER, VERIFIED BY COMPANY MAN.
Event	14	Pump Displacement	Pump Displacement	4/23/2019	18:49:19	COM4	-0.11	0.00	9.00	215.80	BEGIN PUMPING 242 BBL FRESH WATER DISPLACEMENT.

Event	15	Cement Returns to Surface	Cement Returns to Surface	4/23/2019	19:25:27	USER	8.09	2.90	1887.00	233.70	CEMENT RETURNED TO SURFACE 230 BBL INTO DISPLACEMENT, 12 BBL CEMENT TO SURFACE.
Event	16	Bump Plug	Bump Plug	4/23/2019	19:28:54	COM4	8.10	0.00	2165.00	241.80	PLUG BUMPED AT CALCULATED DISPLACEMENT, FINAL CIRCULATING PRESSURE OF 1800PSI.
Event	17	Other	Casing Test	4/23/2019	19:29:17	USER	8.10	0.00	2248.00	241.90	5 MIN CASING TEST AT 2400 PSI.
Event	18	Check Floats	Check Floats	4/23/2019	19:32:51	USER	8.11	0.00	2308.00	241.90	RELEASED PRESSURE BACK TO THE TRUCK, FLOATS HELD, 2 BBL BACK.
Event	19	Other	Casing Test	4/23/2019	19:35:24	COM4	8.13	0.00	2157.00	243.70	HELD 15 MIN CASING TEST AT 2000 PSI.
Event	20	Release Casing Pressure	Release Casing Pressure	4/23/2019	19:52:59	USER	8.13	0.00	654.00	243.70	RELEASED PRESSURE BACK TO THE TRUCK, FLOATS HELD, 2 BBL BACK
Event	21	End Job	End Job	4/23/2019	19:55:52	COM4	8.10	0.00	4.00	243.70	END JOB DATA RECORDING.
Event	22	Pre-Rig Down Safety Meeting	Pre-Rig Down Safety Meeting	4/23/2019	20:00:00	USER	8.10	0.00	3.00	243.70	DISCUSSED POSSIBLE HAZARDS ASSOCIATED WITH WEATHER, LOCATION AND RIGGING DOWN IRON AND HOSES.
Event	23	Rig-Down Completed	Rig-Down Completed	4/23/2019	20:15:00	USER					ALL HALLIBURTON ITEMS WERE STOWED FOR TRAVEL.
Event	24	Pre-Convoy Safety Meeting	Pre-Convoy Safety Meeting	4/23/2019	20:20:00	USER					DISCUSSED ROUTES HAZARDS AND COMMUNICATION WITH CREW.
Event	25	Crew Leave Location	Crew Leave Location	4/23/2019	20:30:00	USER					THANK YOU FOR USING HALLIBURTON - THOMAS HAAS AND CREW.

## 3.0 Attachments

### 3.1 Highpoint Intermediate Anshutz Equus Farms Fed 5-61-354841B-Custom Results.png

