

HALLIBURTON

iCem[®] Service

HIGHPOINT RESOURCES CORP-EBUS

United States of America, COLORADO

For: Chris

Date: Tuesday, April 30, 2019

WELD

Highpoint Anschutz Equus Farms 5-61-35-4841B Production

Job Date: Tuesday, April 30, 2019

Sincerely,

Steve Markovich

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 **Well Name and Number** cement **Job Type** 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 XX 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

Cementing Job Summary

The Road to Excellence Starts with Safety

Sold To #: 343492	Ship To #: 3931143	Quote #:	Sales Order #: 0905659468
Customer: HIGHPOINT RESOURCES CORP-EBUS		Customer Rep: Chris	
Well Name: ANSCHUTZ EQUUS FARMS	Well #: 5-61-35-4841B	API/UWI #: 05-123-49225-00	
Field: WATTENBERG	City (SAP): ROGGEN	County/Parish: WELD	State: COLORADO
Legal Description: NE SE-34-5N-61W-1686FSL-345FEL			
Contractor: CADE DRLG		Rig/Platform Name/Num: CADE 24	
Job BOM: 7523 7523			
Well Type: HORIZONTAL OIL			
Sales Person: HALAMERICA\H139013		Srcv Supervisor: Steven Markovich	

Job

Formation Name	
Formation Depth (MD)	Top Bottom
Form Type	BHST
Job depth MD	15936ft Job Depth TVD
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		7	6.366	23			0	6210	0	5839
Casing		4.5	4	11.6	8 RD		0	15928	0	5839
Open Hole Section			6.125				6210	15928	0	5839

Tools and Accessories

Type	Size in	Qty	Make	Depth ft	Type	Size in	Qty	Make
Guide Shoe	4.5			15928	Top Plug	4.5		HES
Float Shoe	4.5				Bottom Plug	4.5		HES
Float Collar	4.5				SSR plug set	4.5		HES
Insert Float	4.5				Plug Container	4.5		HES
Stage Tool	4.5				Centralizers	4.5		HES

Fluid Data

Stage/Plug #: 1										
Fluid #	Stage Type	Fluid Name	Qty	Qty UoM	Mixing Density lbm/gal	Yield ft ³ /sack	Mix Fluid Gal	Rate bbl/min	Total Mix Fluid Gal	
1	FDP-C1337-18	SBM FDP-C1337-18 CEMENT SPACER SYS	40	bbl	12	3.16				
0.50 gal/bbl		D-AIR 3000L, 5 GAL PAIL (101007444)								
177.84 lbm/bbl		BARITE, BULK (100003681)								
1 lbm/bbl		FE-2 (100001615)								

Cementing Job Summary

Fluid #	Stage Type	Fluid Name	Qty	Qty UoM	Mixing Density lbm/gal	Yield ft ³ /sack	Mix Fluid Gal	Rate bbl/mi n	Total Mix Fluid Gal
2	NeoCem	NeoCem TM	510	sack	13.2	2.04			9.74
9.70 Gal		FRESH WATER							
34.9980 lbm		TYPE I / II CEMENT, BULK (101439798)							
Fluid #	Stage Type	Fluid Name	Qty	Qty UoM	Mixing Density lbm/gal	Yield ft ³ /sack	Mix Fluid Gal	Rate bbl/mi n	Total Mix Fluid Gal
3	Fresh Water		246	bbl	8.33				
Cement Left In Pipe	Amount	0 ft			Reason			WSS	
Mix Water:	pH 7	Mix Water Chloride:	0 ppm		Mix Water Temperature:	63 °F °C			
Comment Bumped plug at 246bbls away, final lift pressure was 1420psi. Brought pressure 500psi over and held. WSS sheered at 3116psi and then pumped a 1bbl wet shoe. Estimated Top of Cement 5141'.									

Summary Report

Sales Order #: 0905659468
WO #: 0905659468
PO #: NA
AFE #: 20407D

Crew: _____
Job Start Date: 04/30/2019 03:10 AM

Customer:	HIGHPOINT RESOURCES CORP- EBUS	Field:	WATTENBERG	Job Type:	CMT PRODUCTION CASING BOM
UWI / API Number:	05-123-49225-00	County/Parish:	WELD	Service Supervisor:	Steven Markovich
Well Name:	ANSCHUTZ EQUUS FARMS	State:	COLORADO		
Well No:	5-61-35-4841B	Latitude:	40.354738	Cust Rep Name:	Chris
		Longitude:	-104.186770	Cust Rep Phone #:	
		Sect / Twn / Rng:	34/5/61		

Remarks:		
<i>The Information Stated Herein Is Correct</i>	Customer Representative Signature	Date
	Customer Representative Printed Name	

2.0 Real-Time Job Summary

2.1 Job Event Log

Type	Seq. No.	Activity	Graph Label	Date	Time	Source	DS Pump Press <i>(psi)</i>	Comb Pump Rate <i>(bbl/min)</i>	Pump Stg Tot <i>(bbl)</i>	DH Density <i>(ppg)</i>	Recirc Density <i>(ppg)</i>	Comments
Event	1	Call Out	Call Out	4/29/2019	01:00:00	USER						Job called out with an on location time of 0600.
Event	2	Crew Leave Yard	Crew Leave Yard	4/29/2019	04:00:00	USER						JSA with HES crew on directions and road hazards on the way to location
Event	3	Arrive At Loc	Arrive At Loc	4/29/2019	05:15:00	USER						Arrived on location, rid was still running casing. 6000' to run.
Event	4	Assessment Of Location Safety Meeting	Assessment Of Location Safety Meeting	4/29/2019	05:30:00	USER						JSA and hazard hunt with HES crew
Event	5	Start Job	Start Job	4/30/2019	03:12:39	COM4	-10.00	0.00	0.00	8.36	8.33	TD 15944' TP 15936' FC 15889' WSS 15881', 4 1/2" 11.6# Production Casing, 6 1/4" Open Hole, 7" 23# Intermediate Casing set at 6210', 9 5/8" 36# Surface Casing set at 1007', KOP 5310', TVD 5839', Mud # 9.1ppg, Rigs final circulation rate and pressure was 8bbl/min 1600psi.
Event	6	Check Weight	Check Weight	4/30/2019	03:15:48	COM4	-11.00	0.00	0.00	8.36	12.24	Weight verified by pressurized scales.
Event	7	Test Lines	Test Lines	4/30/2019	03:21:15	COM4	1719.00	0.00	1.10	8.50	12.18	Set kick outs to 500psi and check low pressure kick outs. Bring pressure up to 5500psi and hold.
Event	8	Pump Spacer 1	Pump Spacer 1	4/30/2019	03:24:16	COM4	567.00	0.00	0.00	8.43	12.17	Pump 40bbls of 12ppg 3.16yief FDP Spacer.

Event	ID	Description	Category	Date	Time	Code	Start	End	Volume	Pressure	Flow	Notes
												Pumped at 6bbl/min 1050psi.
Event	9	Check Weight	Check Weight	4/30/2019	03:29:47	COM4	1376.00	6.00	23.80	12.13	11.91	Weight verified by pressurized scales.
Event	10	Pump Cement	Pump Cement	4/30/2019	03:32:10	COM4	1467.00	6.10	0.10	13.09	13.45	Pump 185bbbls (510sks) of 13.2ppg 2.04yield Cement. Pumped at 8bbl/min 1848psi.
Event	11	Check Weight	Check Weight	4/30/2019	03:34:36	COM4	1848.00	7.90	17.90	13.28	13.24	Weight verified by pressurized scales.
Event	12	Shutdown	Shutdown	4/30/2019	03:56:48	COM4	42.00	0.00	184.00	13.18	-0.10	Shutdown and clean pumps and lines.
Event	13	Pump Displacement	Pump Displacement	4/30/2019	04:07:40	COM4	-6.00	0.00	198.00	12.10	11.87	Pump 246bbbls of H2O. First 20bbbls with MMCR, then 226bbbls with biocide, oxygen and anhib. Pumped at 8bbl/min and slowed rate with pressure increase.
Event	14	Drop Top Plug	Drop Top Plug	4/30/2019	04:07:43	COM4	-6.00	0.00	0.00	12.01	11.87	Plug loaded in casing by weatherford tool hand and in front of copany rep.
Event	15	Bump Plug	Bump Plug	4/30/2019	04:40:43	COM4	1396.00	3.00	241.90	8.27	-0.10	Bumped plug at 246bbbls away, final lift pressure was 1420psi. Brought pressure 500psi over and held.
Event	16	Other	Other	4/30/2019	04:43:34	COM4	1955.00	0.00	242.30	8.18	-0.10	Kicked in pumps at 2bbl/min to burst WSS.
Event	17	Other	Other	4/30/2019	04:44:10	COM4	3116.00	2.00	243.30	8.14	-0.10	WSS burst at 3116psi and then pumped a 1bbl wet shoe.
Event	18	End Job	End Job	4/30/2019	04:45:34	COM4	23.00	0.00	244.50	8.07	-0.10	Thank you, Steve Markovich and crew.

3.0 Attachments

3.1 Highpoint Anschutz Equus Farms 5-61-35-4841B Production-Custom Results.png



