

HALLIBURTON

iCem[®] Service

BILL BARRETT CORPORATION-EBUS

Date: Wednesday, October 11, 2017

Anschutz Equus Farms 4-62-29-5764C Intermediate

Job Date: Sunday, September 24, 2017

Sincerely,

Justin Lansdale

Table of Contents

1.0	Cementing Job Summary	4
1.1	Executive Summary	4
2.0	Real-Time Job Summary	7
2.1	Job Event Log	7
3.0	Attachments.....	9
3.1	Job Chart.....	9

1.0 Cementing Job Summary

1.1 Executive Summary

Halliburton appreciates the opportunity to perform the cementing services on the **Anschutz Equus Farms 4-62-29-5764C** cement **Intermediate** 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 [Fort Lupton]

The Road to Excellence Starts with Safety

Sold To #: 343492	Ship To #: 3721202	Quote #:	Sales Order #: 0904316920
Customer: BILL BARRETT CORPORATION E-BILL		Customer Rep: Curtis Crowton	
Well Name: ANSCHUTZ EQUUS FARMS		Well #: 4-62-29-5764C	API/UWI #: 05-123-42748-00
Field: WATTENBERG	City (SAP): ROGGEN	County/Parish: WELD	State: COLORADO
Legal Description: SWSW-28-4N-62W-245FSL-306FWL			
Contractor: Cade		Rig/Platform Name/Num: Cade 24	
Job BOM: 7522 7522			
Well Type: HORIZONTAL OIL			
Sales Person: HALAMERICA\HX38199		Srvc Supervisor: Nicholas Roles	

Job

Formation Name			
Formation Depth (MD)	Top		Bottom
Form Type	BHST		
Job depth MD	6673ft		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		9.625	8.921	36		J-55	0	815		815
Casing		7	6.184	26		HCP110	0	6673		6673
Open Hole Section			8.75				815	6688	815	6688

Tools and Accessories

Type	Size in	Qty	Make	Depth ft	Type	Size in	Qty	Make
Guide Shoe	7				Top Plug	7		HES
Float Shoe	7			6673	Bottom Plug	7		HES
Float Collar	7				SSR plug set	7		HES
Insert Float	7				Plug Container	7	1	HES
Stage Tool	7				Centralizers	7		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	Water Spacer	Water Spacer	20	bbl	8.33			5	

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	11.5 lb/gal Tuned Spacer III	Tuned Spacer III	20	bbl	11.5	3.76		5		
149.34 lbm/bbl		BARITE, BULK (100003681)								
36.20 gal/bbl		FRESH WATER								
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	ElastiCem	ELASTICEM (TM) SYSTEM	730	sack	13.2	1.57		7	7.53	
7.53 Gal		FRESH WATER								
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	Displacement	260	bbl	8.33			8		
Cement Left In Pipe		Amount	48 ft		Reason			Shoe Joint		
Comment Got 10bbls cement to surface.										

2.0 Real-Time Job Summary

2.1 Job Event Log

Type	Seq. No.	Activity	Graph Label	Date	Time	Source	Comments
Event	1	Call Out	Call Out	9/23/2017	19:00:00	USER	Called out by Service Coordinator for O/L at 0030
Event	2	Depart Yard Safety Meeting	Depart Yard Safety Meeting	9/23/2017	22:45:00	USER	Held meeting with all personnel in convoy to discuss directions and hazards associated with drive, all fit to drive.
Event	3	Depart from Service Center or Other Site	Depart from Service Center or Other Site	9/23/2017	23:00:00	USER	Journey Management prior to departure
Event	4	Arrive at Location from Service Center	Arrive at Location from Service Center	9/24/2017	00:00:00	USER	Upon arrival met with company man to discuss job details and calculations, performed hazard hunt and site assessment.
Event	5	Pre-Rig Up Safety Meeting	Pre-Rig Up Safety Meeting	9/24/2017	00:15:00	USER	Discussed rigging up hazards and procedure according to HMS.
Event	6	Other	Other	9/24/2017	00:30:00	USER	Water test- PH-6, Chlor-0, Temp-65. Cement temp-70.
Event	7	Pre-Job Safety Meeting	Pre-Job Safety Meeting	9/24/2017	01:15:00	USER	Held safety meeting with all job associated personnel to discuss job procedure, hazards and stop work authority.
Event	8	Start Job	Start Job	9/24/2017	01:50:27	COM4	TD-6688', TP-6673', FC-6628', OH-8.75", SURF-815' 9.625" 36#, MUD-10#
Event	9	Test Lines	Test Lines	9/24/2017	01:53:03	USER	Pumped 5bbls to fill lines, established circulation, shutdown and closed manifold, performed 500psi k/o function test, proceeded to bring pressure to 3500psi. Held good no leaks.
Event	10	Pump Spacer	Pump Spacer	9/24/2017	01:59:50	USER	Pumped 20bbls fresh water at 5bpm 355psi

Event	11	Pump Spacer 2	Pump Spacer 2	9/24/2017	02:04:02	COM4	Pumped 20bbls 11.5# 3.76y 24.2g/s Tuned Spacer III at 5bpm 420psi.
Event	12	Pump Cement	Pump Cement	9/24/2017	02:07:20	COM4	Pumped 730sks or 204bbls 13.2# 1.57y 7.53g/s Elasticem at 7bpm 850psi.
Event	13	Check Weight	Check weight	9/24/2017	02:07:57	COM4	Weight verified with pressurized mud scales.
Event	14	Check Weight	Check weight	9/24/2017	02:31:18	COM4	Weight verified with pressurized mud scales.
Event	15	Check Weight	Check weight	9/24/2017	02:37:39	COM4	Weight verified with pressurized mud scales.
Event	16	Drop Top Plug	Drop Top Plug	9/24/2017	02:45:31	COM4	Dropped by HES supervisor, witnessed by company man.
Event	17	Pump Displacement	Pump Displacement	9/24/2017	02:45:36	COM4	Pumped 260bbls of fresh water at 8bpm 1590psi
Event	18	Bump Plug	Bump Plug	9/24/2017	03:34:35	COM4	Slowed down to 2bpm at 245bbls away, final circulating pressure - 1800psi, Bumped at 2400psi.
Event	19	Check Floats	Check Floats	9/24/2017	03:38:01	USER	Released pressure and got 2bbls back. Floats Held.
Event	20	Pressure Up Well	Pressure Up Well	9/24/2017	03:41:11	COM4	Pressured up to 2000psi with fresh water and held for 10min casing test.
Event	21	End Job	End Job	9/24/2017	03:54:22	COM4	Got 10bbls cement to surface.
Event	22	Pre-Rig Down Safety Meeting	Pre-Rig Down Safety Meeting	9/24/2017	03:54:23	USER	Discussed rigging down hazards and procedure according to HMS.
Event	23	Depart Location for Service Center or Other Site	Depart Location for Service Center or Other Site	9/24/2017	03:54:24	USER	Pre journey management prior to departure.
Event	24	Depart Location Safety Meeting	Depart Location Safety Meeting	9/24/2017	03:54:25	USER	Held meeting with all personnel in convoy to discuss directions and hazards associated with drive, all fit to drive.

3.0 Attachments

3.1 Job Chart



