

**HALLIBURTON**

**Cementing Job Summary**

*The Road to Excellence Starts with Safety*

Sold To #: 343492		Ship To #:		Quote #: 0022153335		Sales Order #: 0903085493					
Customer: BILL BARRETT CORPORATION E-BILL				Customer Rep: CASEY							
Well Name: ANSCHUTZ EQUUS FARMS		Well #: 4-62-09-0108B2B		API/UWI #: 05-123-42663							
Field: WATTENBERG		City (SAP): ROGGEN		County/Parish: WELD		State: COLORADO					
Legal Description: NW NW-33-4N-62W-620FNL-250FWL											
Contractor: UNKNOWN				Rig/Platform Name/Num: WORKOVER RIG							
Job BOM: 7528											
Well Type: HORIZONTAL OIL											
Sales Person: HALAMERICA\HX38199				Srcv Supervisor: Joseph Scileppi							
<b>Job</b>											
Formation Name											
Formation Depth (MD)		Top 0		Bottom 820							
Form Type		BHST									
Job depth MD		820ft		Job Depth TVD		820					
Water Depth		Wk Ht Above Floor									
Perforation Depth (MD)		From		To							
<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	
Drill Pipe		4.5	3.826	16.6		J-55	0	820		820	
Open Hole Section			13.75				0	820	0	820	
<b>Tools and Accessories</b>											
Type	Size in	Qty	Make	Depth ft		Type	Size in	Qty	Make		
Guide Shoe	4.5			820		Top Plug	4.5				
Float Shoe	4.5					Bottom Plug	4.5				
Float Collar	4.5					SSR plug set	4.5				
Insert Float	4.5					Plug Container	4.5				
Stage Tool	4.5					Centralizers	4.5				
<b>Fluid Data</b>											
Stage/Plug #: 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	Bottom Plug	SWIFTCEM (TM) SYSTEM	59	sack	13.5	1.75		6	9.24		
9.24 Gal		FRESH WATER									
Cement Left In Pipe		Amount ft		Reason			Shoe Joint				
<b>Fluid Data</b>											
Stage/Plug #: 2											
GOT .5 BBL CMT BACK TO SURFACE											

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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	Surface Plug	SWIFTCEM (TM) SYSTEM	236	sack	13.5	1.75		6	9.24
9.24 Gal		FRESH WATER							
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	Leftover Cement	SWIFTCEM (TM) SYSTEM	30	sack	13.5	1.75		6	9.24
9.24 Gal		FRESH WATER							
Cement Left In Pipe	Amount	ft	Reason					Shoe Joint	
Mix Water:	pH ##	Mix Water:	## ppm	Chloride:			Mix Water Temperature:## °F °C		
Cement Temperature:## °F °C	Plug Displaced by:## lb/gal kg/m <sup>3</sup> XXXX		Disp. Temperature:## °F °C						
Plug Bumped?Yes/No	Bump Pressure:#### psi MPa		Floats Held?Yes/No						
Cement Returns:## bbl m <sup>3</sup>	Returns Density:## lb/gal kg/m <sup>3</sup>		Returns Temperature:## °F °C						
Comment TOPPED OUT AND GOT 3 BBLS OF CMT BACK TO SURFACE									

## 2.0 Real-Time Job Summary

### 2.1 Job Event Log

Type	Seq. No.	Activity	Graph Label	Date	Time	Source	Comb Pump Rate (bbl/min)	DH Density (ppg)	PS Pump Press (psi)	Comments
Event	1	Call Out	Call Out	1/27/2016	06:30:00	USER				CALLOUT FOR ON LOCATION AT 1300, BUT GOT PUSHED BACK TO 1600
Event	2	Crew Left Yard	Crew Left Yard	1/27/2016	14:45:00	USER				PRE JOURNEY JSA W/ CREW
Event	3	Arrive At Location	Arrive At Location	1/27/2016	16:30:00	USER				UPON ARRIVAL RIG WAS READY, MET W/ COMPANY REP TO DISCUSS JOB PROCEDURE
Event	4	Rig-Up Equipment	Rig-Up Equipment	1/27/2016	16:45:00	USER				PRE RIG UP HAZARD HUNT JSA W/ CREW
Event	5	Other	Other	1/27/2016	16:50:00	USER				FIELD MIX WATER ANALYSIS: PH-6, CHLORIDES-0, TEMP-52, IRON-0
Event	6	Pre-Job Safety Meeting	Pre-Job Safety Meeting	1/27/2016	18:00:00	USER				JSA W/ ALL INVOLVED PERSONNEL
Event	7	Start Job	Start Job	1/27/2016	18:14:46	COM5				
Event	8	Test Lines	Test Lines	1/27/2016	18:15:52	COM5	0.00	8.33	3200.00	TESTED LINES TO 3000 PSI, NO VISIBLE LEAKS
Event	9	Pump Cement	Pump Cement	1/27/2016	18:24:52	COM5	2.00	13.50	14.00	PYUMPED 59 SKS OR 18.4 BBLS OF 13.5 CMT AT 2 BPM AND 14 PSI
Event	10	Check Weight	Check weight	1/27/2016	18:30:36	COM5				WEIGHT VERIFIED BY MUD SCALES
Event	11	Pump Displacement	Pump Displacement	1/27/2016	18:37:14	COM5	3.00	8.33	70.00	PUMPED 12 BBLS OF H2O AT 3 BPM AND 70 PSI
Event	12	Shutdown	Shutdown	1/27/2016	18:42:37	COM5				AFTER SHUTTING DOWN HAD 90 PSI SO WE BLED OFF PRESSURE AND GOT GOOD FLOW BACK TO TRUCK. I IMMEDIATELY CLOSED RELEASE LINE AND INFORMED COMPANY REP THAT WE WERE GETTING FLOW BACK TO TRUCK, HE INSTRUCTED ME TO OPEN RELEASE LINE UNTIL FLOW STOPPED. WE GOT 5.5 BBLS BACK TO TRUCK
Event	13	Test Lines	Test Lines	1/27/2016	22:48:17	COM5				TESTED LINES TO 3000 PSI FOR 3 MIN, NO VISIBLE LEAKS
Event	14	Pump Cement	Pump Cement	1/27/2016	22:52:33	COM5	3.50	13.50	26.00	PUMPED 236 SKS OR 73.5 BBLS OF 13.5 CMT AT 3.5 BPM AND 26 PSI

Event	15	Pump Displacement	Pump Displacement	1/27/2016	23:31:54	COM5	3.00	8.33	50.00	PUMPED 6 BBLS OF H2O AT 3 BPM AND 50 PSI, GOT .5 BBL OF CMT BACK TO SURFACE
Event	16	Shutdown	Shutdown	1/27/2016	23:34:42	COM5				
Event	17	Pump Cement	Pump Cement	1/28/2016	00:22:33	COM5	2.00	13.5	10.00	TOPPED OUT WITH 30 SKS OR 9.3 BBLS OF 13.5 CMT, GOT 3 BBLS OF CMT BACK TO SURFACE
Event	18	End Job	End Job	1/28/2016	00:44:16	COM5				