

HALLIBURTON

iCem[®] Service

EXTRACTION OIL & GAS

Date: Saturday, February 11, 2017

Kiteley #8 Surface

Job Date: Tuesday, January 24, 2017

Sincerely,

Julia Nichols

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 **Kiteley 8** cement **Surface** 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 30 barrels 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 [Ft. Lupton]

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Cementing Job Summary

The Road to Excellence Starts with Safety

Sold To #: 369404		Ship To #: 3770141		Quote #:		Sales Order #: 0903801007					
Customer: EXTRACTION OIL & GAS -				Customer Rep: SEAN MCINTYR							
Well Name: KITELEY			Well #: 8		API/UWI #: 05-123-43924-00						
Field: WATTENBERG		City (SAP): LONGMONT		County/Parish: WELD		State: COLORADO					
Legal Description: NW SW-21-3N-68W-1389FSL-622FWL											
Contractor:					Rig/Platform Name/Num: Spud Rig						
Job BOM: 7521											
Well Type: HORIZONTAL OIL											
Sales Person: HALAMERICA\HX38199					Srvc Supervisor: Andrew Brennecke						
Job											
Formation Name											
Formation Depth (MD)		Top			Bottom						
Form Type					BHST						
Job depth MD		1575ft			Job Depth TVD						
Water Depth					Wk Ht Above Floor			5			
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			0	1575	0	1600	
Open Hole Section			13.5				0	1575	0	1600	
Tools and Accessories											
Type	Size in	Qty	Make	Depth ft		Type	Size in	Qty	Make		
Guide Shoe	9.625	1		1575		Top Plug	9.625	1	HES		
Float Shoe						Bottom Plug					
Float Collar	9.625	1		1531		SSR plug set					
Insert Float						Plug Container	9.625	1	HES		
Stage Tool						Centralizers	9.625				
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	Red Dye Spacer	Red Dye Spacer			10	bbl	8.33			3	
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	SwiftCem	SWIFTCEM (TM) SYSTEM			550	sack	13.5	1.74		6	9.2
9.20 Gal		FRESH WATER									

last updated on 2/11/2017 11:15:22 AM

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Cementing Job Summary

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	
3	Fresh Water	Fresh Water	118.3	bbl	8.33			8		
Cement Left In Pipe		Amount	42 ft		Reason			Shoe Joint		
Mix Water:		pH 7	Mix Water Chloride:		0 ppm		Mix Water Temperature:			72 °F
Cement Temperature:			Plug Displaced by:		8.4 lb/gal		Disp. Temperature:			
Plug Bumped?		Yes	Bump Pressure:		530 psi		Floats Held?			Yes
Cement Returns:		30 bbl	Returns Density:				Returns Temperature:			
Comment										

2.0 Real-Time Job Summary

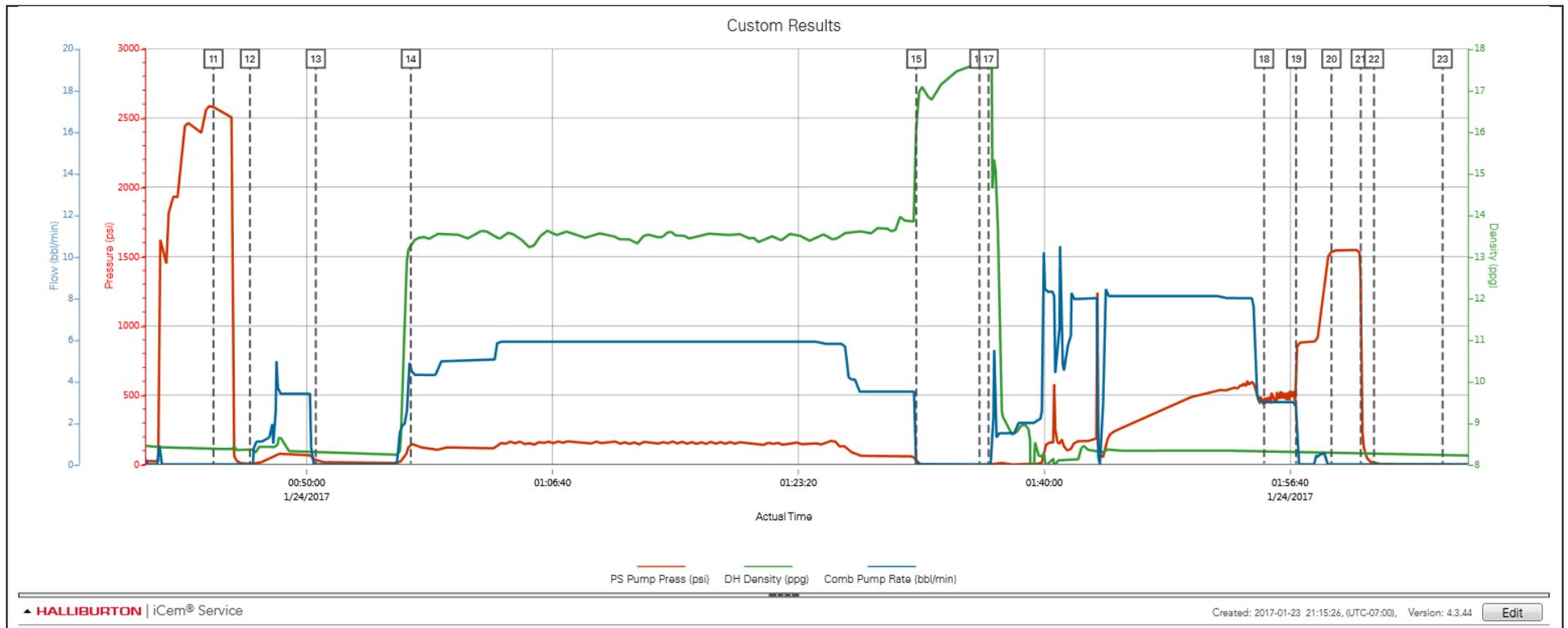
2.1 Job Event Log

Type	Seq. No.	Activity	Graph Label	Date	Time	Source	PS Pump Press <i>(psi)</i>	DH Density <i>(ppg)</i>	Comb Pump Rate <i>(bbl/min)</i>	Comments
Event	1	Call Out	Call Out	1/23/2017	16:00:00	USER				
Event	2	Pre-Convoy Safety Meeting	Pre-Convoy Safety Meeting	1/24/2017	19:00:00	USER				ALL HES PRESENT
Event	3	Crew Leave Yard	Crew Leave Yard	1/24/2017	19:15:00	USER				
Event	4	Arrive at Location from Service Center	Arrive at Location from Service Center	1/24/2017	20:00:00	USER				RIG PULLING OUT OF HOLE
Event	5	Assessment Of Location Safety Meeting	Assessment Of Location Safety Meeting	1/24/2017	21:21:00	USER				
Event	6	Pre-Rig Up Safety Meeting	Pre-Rig Up Safety Meeting	1/24/2017	23:30:00	USER				ALL HES PRESENT
Event	7	Rig-Up Completed	Rig-Up Completed	1/24/2017	00:00:01	USER				1-RED TIGER, 2-660 BULK TRAILER, 9.625" QUICK LATCH PLUG CONTAINER, 2" IRON, 4" SUCTION HOSE
Event	8	Pre-Job Safety Meeting	Pre-Job Safety Meeting	1/24/2017	00:15:00	USER				ALL HES AND RIG CREW PRESENT
Event	9	Start Job	Start Job	1/24/2017	00:36:27	COM5				TD-1575', TP-1575' CSG-9.625" 36#, SJ-44', OH-13.5", CNDT-16" 60' 55#, MUD-8.5PPG
Event	10	Prime Pumps	Prime Pumps	1/24/2017	00:37:34	COM5				FRESH WATER
Event	11	Test Lines	Test Lines	1/24/2017	00:43:41	USER	2579.00	8.38	0.00	ALL PRESSURE HELD ON LINES
Event	12	Pump Spacer 1	Pump Spacer 1	1/24/2017	00:46:09	COM5	5.00	8.36	0.00	FRESH WATER WITH DYE
Event	13	Shutdown	Shutdown	1/24/2017	00:50:37	USER	28.00	8.30	0.00	SHUTDOWN TO VERIFY WEIGHT ON CEMENT
Event	14	Pump Cement	Pump Cement	1/24/2017	00:57:03	COM5	150.00	13.25	4.90	SWIFTCEM 550SKS, 13.5PPG, 1.74CF/SK, 9.2GAL/SK
Event	15	Shutdown	Shutdown	1/24/2017	01:31:19	USER	24.00	16.10	0.00	WASHED UP ON TOP OF PLUG
Event	16	Drop Plug	Drop Plug	1/24/2017	01:35:36	USER	-2.00	17.66	0.00	PLUG DROP VERIFIED BY TATTLE TAIL

Event	17	Pump Displacement	Pump Displacement	1/24/2017	01:36:13	COM5	-3.00	17.74	0.00	FRESH WATER
Event	18	Slow Rate	Slow Rate	1/24/2017	01:54:54	USER	460.00	8.32	3.00	SLOW RATE LAST 10 BBLS
Event	19	Bump Plug	Bump Plug	1/24/2017	01:57:04	USER	629.00	8.31	2.70	PLUG BUMPED 530PSI
Event	20	Pressure Up Well	Casing Test	1/24/2017	01:59:28	COM5	1534.00	8.30	0.00	PRESSURE 1546PSI
Event	21	Check Floats	Check Floats	1/24/2017	02:01:27	USER	1283.00	8.25	0.00	FLOATS HELD .5 BBLS BACK
Event	22	End Job	End Job	1/24/2017	02:02:21	COM5				GOOD RETURNS THROUGH OUT JOB, 30 BBLS CEMENT TO SURFACE
Event	23	Pre-Rig Down Safety Meeting	Pre-Rig Down Safety Meeting	1/24/2017	02:07:00	USER				ALL HES PRESENT
Event	24	Crew Leave Location	Crew Leave Location	1/24/2017	03:15:00	USER				THANK YOU FOR CHOOSING HALLIBURTON, ANDREW BRENNECKE AND CREW

3.0 Attachments

3.1 Custom Results – Job Chart with Events



3.2 Custom Results – Job Chart without Events

