

HALLIBURTON

Cementing Job Summary

The Road to Excellence Starts with Safety

Sold To #: 375989	Ship To #: 375989	Quote #: 0022471239	Sales Order #: 0905131508
Customer: CONFLUENCE DJ LLC-EBUS		Customer Rep:	
Well Name: MIDDLEPARK		Well #: 18-21-3L	API/UWI #: 05-123-47444-00
Field: WATTENBERG	City (SAP): ROGGEN	County/Parish: WELD	State: COLORADO
Legal Description: SE SW-18-4N-62W-222FSL-1649FWL			
Contractor: XTREME DRLG		Rig/Platform Name/Num: XTREME 24	
Job BOM: 7521 7521			
Well Type: HORIZONTAL OIL			
Sales Person: HALAMERICA\HX38199		Srv Supervisor: Fernando Luna	
Job			

Formation Name			
Formation Depth (MD)	Top		Bottom
Form Type			BHST
Job depth MD	1570 ft		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			0	1561	0	
Open Hole Section			13.5				0	1570		

Tools and Accessories

Type	Size in	Qty	Make	Depth ft	Type	Size in	Qty	Make
Guide Shoe	9.625			1561	Top Plug	9.625		HES
Float Shoe	9.625				Bottom Plug	9.625		HES
Float Collar	9.625				SSR plug set	9.625		HES
Insert Float	9.625				Plug Container	9.625		HES
Stage Tool	9.625				Centralizers	9.625		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	Mud Flush III (Powder)	Mud Flush III	40	bbl	8.4			8		
42 gal/bbl FRESH WATER										
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	Red dye water	Red dye water	10	bbl	8.4			8		
42 gal/bbl FRESH WATER										

last updated on 9/17/2018 12:22:08 PM

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iCem® Service

(v. 4.5.139)

Created: Monday, September 17, 2018

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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	13.5# SwiftCem	SWIFTCM (TM) SYSTEM	575	sack	13.5	1.74		8	9.2
9.18 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
3	Displacement fluid		n/a rig displaces	bbl	8.3			8	
Cement Left In Pipe		Amount	40 ft		Reason			Shoe Joint	
Mix Water:		pH 7	Mix Water Chloride:			<50 ppm		Mix Water Temperature:	
Cement Temperature:		## °F °C	Plug Displaced by:			Obm: rig displaces		Disp. Temperature:	
Plug Bumped?		Yes	Bump Pressure:			1155 psi MPa		Floats Held?	
Cement Returns:		35 bbl m3	Returns Density:			## lb/gal kg/m3		Returns Temperature:	
Comment 35bbls cement to surface									

2.0 Real-Time Job Summary

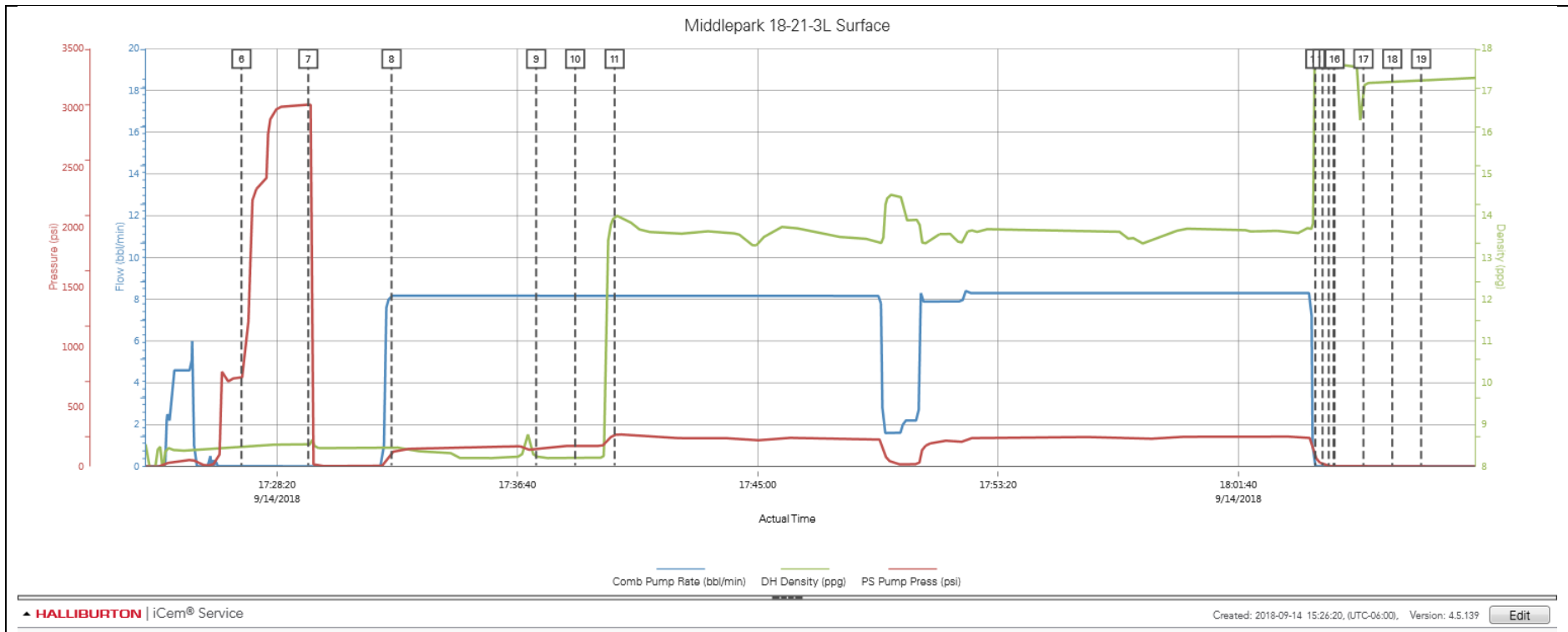
2.1 Job Event Log

Type	Seq. No.	Activity	Graph Label	Date	Time	Source	Comb Pump Rate (bbl/min)	DH Density (ppg)	PS Pump Press (psi)	Comments
Event	1	Arrive At Loc	Arrive At Loc	9/14/2018	13:00:00	USER				HES crew arrives on location, signs in with rig safety captain, conducts hazard hunt, spots equipment, conducts pre-rig up safety meeting, completes jsa, and verify volumes with co-rep
Event	2	Take Reading	Water Test	9/14/2018	13:01:00	USER				Water test=pH: 7, Cl: <50, temp 64 degrees, Well Fluid density: 9.0 water based mud temp: approx.. 96, calibrate pressurized mud scales via provided fresh water source @ 8.33ppg
Event	3	Take Reading	Well Info	9/14/2018	13:02:00	USER				TD: 1570' , TP : 1558.7' , SJ: 38.47' , OH: 13 1/2" , Casing: Size/Weight/: 9 5/8" 36#
Event	4	Take Reading	Job Info	9/14/2018	13:03:00	USER				Spacer: 40bbl fresh water/10bbls fresh water/10bbls red dye water TOS: approx.. surface' Lead Cement: approx.. 178bbls/1001cuft/575sks lead cement @ +/- 13.5 density/1.74 yield/9.2 water TOC: approx... surface' , RIG PUMPS Displacement: 117.5bbls oil based mud , CMT left in Pipe: 38.47' Reason: shoe joint
Event	5	Safety Meeting - Pre Job	Safety Meeting - Pre Job	9/14/2018	17:00:00	USER	0.00	8.53	2.00	Conduct safety meeting with all on location: discuss job procedure/contingency plans/hazards involved prior to pumping
Event	6	Pressure Test	Pressure Test	9/14/2018	17:27:06	USER	0.00	8.46	743.00	Low pressure test surface lines @ 742psi
Event	7	Pressure Test Lubricator	Pressure Test	9/14/2018	17:29:25	USER	0.00	8.53	3031.00	High pressure test surface lines @ 3030psi
Event	8	Pump Spacer	Pump Mud Flush III	9/14/2018	17:32:18	USER	8.20	8.45	114.00	Pump 40bbls mud flush III
Event	9	Pump Spacer	Pump Fresh Water	9/14/2018	17:37:19	USER	8.20	8.25	140.00	Pump 10bbls fresh water spacer
Event	10	Pump Spacer	Pump Red Dye Water	9/14/2018	17:38:40	USER	8.20	8.22	168.00	Pump 10bbls red dye water spacer
Event	11	Pump Lead Cement	Pump Lead Cement	9/14/2018	17:40:02	USER	8.10	13.98	261.00	Scale and pump approx. 178bbls/1001cuft/575sks lead cement @ +/- 13.5 density/1.74 yield/9.2 water

Event	12	Shutdown	Shutdown	9/14/2018	18:04:20	USER	0.00	19.76	79.00	
Event	13	Drop Top Plug	Drop Top Plug	9/14/2018	18:04:35	USER	0.00	20.85	16.00	HES service supervisor drops 3rd party top plug
Event	14	Shut In Well	Shut In Well	9/14/2018	18:04:48	USER	0.00	20.48	2.00	
Event	15	Bleed Casing	Bleed Off Surface Lines	9/14/2018	18:04:58	USER	0.00	20.30	-1.00	
Event	16	Resume	Turn Well Over to Rig	9/14/2018	18:05:00	USER	0.00	20.27	-2.00	Turn well over to rig to displace 3rd party top plug
Event	17	Cement Returns to Surface	Cement Returns to Surface	9/14/2018	18:06:00	USER	0.00	17.06	-1.00	Approx. 35bbbls/196cuft/113sks cement returns to surface
Event	18	Bump Plug	Bump Plug	9/14/2018	18:07:00	USER	0.00	17.22	-1.00	Rig bump 3rd party top plug @ approx. 1155psi
Event	19	Pressure Test Lubricator	Pressure Test	9/14/2018	18:08:00	USER	0.00	17.24	-1.00	Rig Pressure tests casing @ 1155psi for approx 5min
Event	20	Depart Location	Depart Location	9/14/2018	21:00:00	USER				HES crew conducts pre-rig down safety meeting, signs out with rig safety captain and departs location
Event	21	Depart Location	Gratitude	9/14/2018	21:01:00	USER				Thank you for choosing Halliburton Energy Services

3.0 Attachments

3.1 Middlepark 18-21-3L Surface – Job Chart with Events



3.2 Middlepark 18-21-3L Surface – Job Chart without Events

