

The Road to Excellence Starts with Safety

Sold To #: 375989	Ship To #: 3894757	Quote #: 0022471431	Sales Order #: 0905142595
Customer: CONFLUENCE DJ LLC-EBUS		Customer Rep: Tom Thomas	
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: 7523 7523			
Well Type: HORIZONTAL OIL			
Sales Person: HALAMERICA\HX38199		Srvc Supervisor: Kamereon White	

Job

Formation Name			
Formation Depth (MD)	Top		Bottom
Form Type	BHST		
Job depth MD	16497ft	Job Depth TVD	6351
Water Depth		Wk Ht Above Floor	4
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		1561
Casing		5.5	4.778	20			0	16497		6351
Open Hole Section			8.5				0	16513	0	6351

Tools and Accessories

Type	Size in	Qty	Make	Depth ft	Type	Size in	Qty	Make
					Latch Down Plug	5.5	1	?
Float Shoe	5.5	1		16500				
Float Collar	5.5	1		16481				
					Plug Container	5.5	1	HES

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	Diesel	Diesel	20	bbl	6.9			?	

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 lb/gal Tuned Spacer III	Tuned Spacer III	100	bbl	13	2.38	14.0	4	

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	1974	sack	14.4	1.7		8	7.29

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	MMCR Displacement	MMCR Displacement	20	bbl	8.34				
0.50 gal/bbl		MICRO MATRIX CEMENT RETARDER, 5 GAL PAIL (100003781)							

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
5	Displacement	Displacement	345	bbl	8.34				
0.02 gal/bbl		CLA-WEB - TOTE (101985045)							

Cement Left In Pipe	Amount	19 ft	Reason	Shoe Joint
Mix Water:	pH 7	Mix Water Chloride:	> 400 PPM	Mix Water Temperature:
		Plug Displaced by:	8.33 ppg	
Plug Bumped?	Yes	Bump Pressure:	2613 Psi	Floats Held?
Spacer Returns	22 bbls			Yes

Comment

2.0 Real-Time Job Summary

2.1 Job Event Log

Type	Seq. No.	Activity	Graph Label	Date	Time	Source	DS Pump Press (psi)	DH Density (ppg)	Comb Pump Rate (bbl/min)	Comments
Event	1	Call Out	Call Out	9/21/2018	07:00:00	USER				Crew called out and was requested on location @ 11:30.
Event	2	Depart from Service Center or Other Site	Depart from Service Center or Other Site	9/21/2018	10:30:00	USER				Crew left the yard and the supervisor called in a journey.
Event	3	Arrive at Location from Service Center	Arrive at Location from Service Center	9/21/2018	11:15:00	USER				Crew arrived on location and the rig already had casing landed and was circulating.
Event	4	Assessment Of Location Safety Meeting	Assessment Of Location Safety Meeting	9/21/2018	11:20:00	USER				Supervisor and the crew walked around location and discussed rig up procedures and spot in equipment procedure. Supervisor met with the customer and got well information. TD-16,513, TP-16,500' FC-16481' Cas-5.5" 20# P110 PC -9.625" 36 # Set @ 1560 'TVD-6375' Mud#-9.5 ppg OBM, Used a latch down plug for the job.
Event	5	Pre-Rig Up Safety Meeting	Pre-Rig Up Safety Meeting	9/21/2018	11:30:00	USER				Discussed the JSA and had all HES personnel Sign it.
Event	6	Other	Rig Up Equipment	9/21/2018	11:40:00	USER				Rig up all HES equipment and lines.
Event	7	Other	Rig Up Completed	9/21/2018	13:00:00	USER	-18.00	0.07	0.00	All HES equipment and lines rigged up safely no one got hurt.

Event	Safety Meeting - Pre Job	Safety Meeting - Pre Job	9/21/2018	13:15:00	USER	-17.00	8.46	0.00	Description
Event 8	Safety Meeting - Pre Job	Safety Meeting - Pre Job	9/21/2018	13:15:00	USER	-17.00	8.46	0.00	Discussed the job procedure and pressures with the customer and all parties involved with the cement job.
Event 9	Check Weight	Check Weight	9/21/2018	13:43:14	COM4	1.00	8.46	0.00	Checked the weight of the spacer with the pressurized mud scales. Scaled @ 13.0 ppg.
Event 10	Other	Other	9/21/2018	13:44:25	COM4	0.00	8.53	0.00	Fill lines with 3 bbls of water 3 bpm 200 psi.
Event 11	Test Lines	Test Lines	9/21/2018	13:47:54	COM4	4544.00	8.57	0.00	Tested the lines to 500 psi to test the kickouts and the kick outs worked so we proceeded with a high psi test to 4500 psi with no leaks.
Event 12	Pump Spacer 2	Pump Spacer 2	9/21/2018	13:50:34	COM4	1.00	8.44	0.00	Pumped 100 bbls of tuned spacer with surfactants added to the first 80 bbls as per customer request @ 13.0 ppg 2.38 yield 14.0 gal/sks(236 sks) 4 bpm 130 psi.
Event 13	Check Weight	Check Weight	9/21/2018	14:01:14	COM4	200.00	13.35	6.10	Checked the weight of the cement with the pressurized mud scales, scaled @ 14.4 ppg.
Event 14	Pump Cement	Pump Cement	9/21/2018	14:15:21	COM4	137.00	14.44	4.00	Pumped 598 bbls of Cement @ 14.4 ppg 1.7 yield, 7.29 gal/sk (1974 sks) 8 bpm 500 psi the first 25 bbls of cement was having mixing problems so we maintained the rate to keep density and then we got it lined out and picked our rate up to 8 bpm.

Event 15	Check Weight	Check Weight	9/21/2018	14:15:27	COM4	141.00	14.50	4.00	Checked the weight of the cement with the pressurized mud scales, scaled @ 14.4 ppg.
Event 16	Check Weight	Check Weight	9/21/2018	14:17:54	COM4	98.00	14.54	2.90	Checked the weight of the cement with the pressurized mud scales, scaled @ 14.4 ppg. As per HMS Each pod and silo scaled.
Event 17	Shutdown	Shutdown	9/21/2018	15:49:44	COM4	112.00	14.91	0.00	Shutdown to wash pumps and lines.
Event 18	Clean Lines	Clean Lines	9/21/2018	15:52:30	COM4	18.00	15.71	0.90	Clean lines up to the wash up tank.
Event 19	Drop Top Plug	Drop Top Plug	9/21/2018	15:58:08	COM4	13.00	0.03	0.00	Co.Man witnessed the latch down plug being loaded and sitting on the tattle tale. Checked the valve alignment.
Event 20	Pump Displacement	Pump Displacement	9/21/2018	15:58:16	COM4	13.00	0.03	0.00	Pumped 365 bbls of fresh water for displacement the first 20 bbls with MMCR and BE3 and the remainder was with claweb till the last 30 bbls of displacement and then had just fresh water that way when we broke our lines apart there was no chemicals in the lines or on the ground.
Event 21	Displ Reached Cement	Displ Reached Cement	9/21/2018	16:03:41	COM4	652.00	8.41	9.90	@ 45 bbls into displacement we caught the plug and maintained 8 bpm. Psi went from 210 psi to 820 psi when we caught the plug.
Event 22	Bump Plug	Bump Plug	9/21/2018	16:50:48	COM4	3201.00	8.54	0.00	Bumped the plug on calculated displacement, we

Event	23	Other	Other	9/21/2018	16:54:25	COM4	3381.00	8.54	0.00	got 22 bbls of spacer back to surface as per customer.
Event	24	End Job	End Job	9/21/2018	16:55:00	USER	1913.00	8.51	0.00	Waited 5 min before we checked the floats and the floats held got 4 bbls back Cement job complete.
Event	25	Pre-Rig Down Safety Meeting	Pre-Rig Down Safety Meeting	9/21/2018	17:00:00	USER	5.00	8.44	0.00	Discussed the rig down procedures and suspended loads. Signed the JSA.
Event	26	Rig Down Lines	Rig Down Lines	9/21/2018	17:10:00	USER	4.00	8.44	0.00	Rig down all HES equipment and lines.
Event	27	Rig-Down Completed	Rig-Down Completed	9/21/2018	17:45:00	USER				All HES equipment and lines rigged down safely no one got hurt.
Event	28	Depart Location for Service Center or Other Site	Depart Location for Service Center or Other Site	9/21/2018	18:00:00	USER				Kamereon White and Crew would like to thank you for your business and choosing Halliburton Cement, Please give us a call if you have any questions.

3.0 Attachments

3.1 Confluence MiddlePark 18-21-3L Production.png

