

HALLIBURTON

iCem[®] Service

CONOCO/PHILLIPS COMPANY EBUSINESS

Tiberius 4-64 8-7 2DH Surface

Sincerely,
Meghan Jacobs

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 **Tiberius 4-64 8-7 2DH** 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 96 bbls 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 Fort Lupton

The Road to Excellence Starts with Safety

Sold To #: 352431		Ship To #: 3890170		Quote #: 0022566291		Sales Order #: 0905619887				
Customer: CONOCO/PHILLIPS COMPANY-EBUS				Customer Rep: ARON NEGUSSE						
Well Name: TIBERIUS		Well #: 4-64 8-7 2DH		API/UWI #: 05-005-07370-00						
Field: WILDCAT		City (SAP): AURORA		County/Parish: ARAPAHOE		State: COLORADO				
Legal Description: SW NE-8-4S-64W-1586FNL-1502FEL										
Contractor:				Rig/Platform Name/Num: Nabors B16						
Job BOM: 7521 7521										
Well Type: HORIZONTAL OIL										
Sales Person: HALAMERICA\HB41307				Srv Supervisor: Vitali Neverdasov						
Job										
Formation Name										
Formation Depth (MD)		Top		Bottom						
Form Type				BHST						
Job depth MD		2069ft		Job Depth TVD		2069				
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		16	15.25				0	100		
Casing	0	9.625	8.921	36	STC	J-55	0	2069	0	2069
Open Hole Section			13.5				100	2080	100	2080
Tools and Accessories										
Type	Size in	Qty	Make	Depth ft		Type	Size in	Qty	Make	
Guide Shoe	9.625					Top Plug	9.625	1	HES	
Float Shoe	9.625	1	N/A	2069		Bottom Plug	9.625	1	HES	
Float Collar	9.625	1	N/A	2028		SSR plug set	9.625			
Insert Float	9.625					Plug Container	9.625	1	HES	
Stage Tool	9.625					Centralizers	9.625	12	N/A	
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	10 lb/gal Tuned Spacer III	Tuned Spacer III		50	bbl	10	8.97		6	
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	SWIFTCEN (TM) SYSTEM		455	sack	12	2.564		8	15.12
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	SwiftCem	SWIFTCEN (TM) SYSTEM		255	sack	14.2	1.59		6	7.9
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
4	Displacement	Displacement		156	bbl	8.33			8	
Cement Left In Pipe		Amount	41 ft			Reason			Shoe Joint	
Comment : 96 BBLs OF CEMENT BACKTO SURFACE. ESTIMATED TOP OF TAIL @ 1239'.										

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Rockies, Brighton

Lab Results- Lead

Job Information

Request/Slurry	2549558/1	Rig Name	Nabors B16	Date	16/APR/2019
Submitted By	Meghan Jacobs	Job Type	Surface Casing	Bulk Plant	Brighton
Customer	ConocoPhillips	Location		Well	Tiberius 4-64 8-7 2DH

Well Information

Casing/Liner Size	9.625 in	Depth MD	2028 ft	BHST	35°C / 95°F
Hole Size	13.5 in	Depth TVD	2028 ft	BHCT	34°C / 93°F
Pressure	1214 psi				

Cement Information - Lead Design

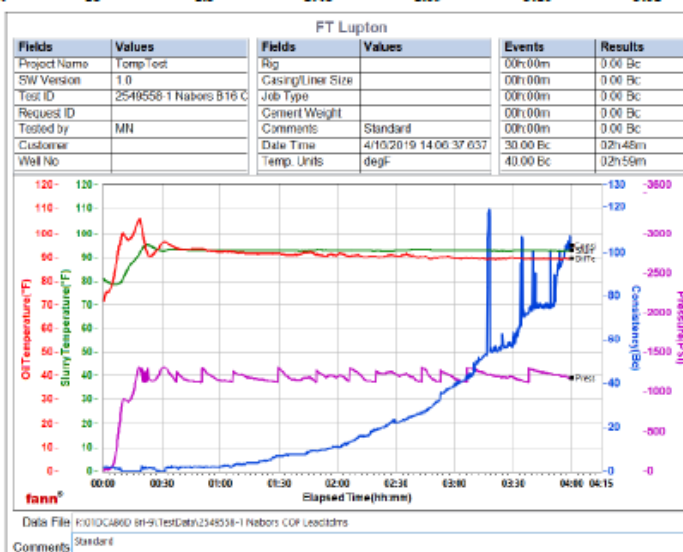
Conc	UOM	Cement/Additive	MP	Sample Type	Sample Date	Lot No.	Cement Properties		
100	% BWOC	Cemex Type I-II		Bulk Blend	17.04.19	2242	Slurry Density	12	lbm/gal
15.14	gal/sack	Field (Fresh) Water		Field Blend	04.04.19		Slurry Yield	2.57	ft ³ /sack
2	% BWOC	Cal-Seal 60	PB	Bulk Blend	17.04.19	L41619	Water Requirement	15.14	gal/sack
2.3	% BWOC	Econolite (Powder - PB)	PB	Bulk Blend	17.04.19	u112218	Total Mix Fluid	15.14	gal/sack
0.2	% BWOC	VERSASET (PB)	PB	Bulk Blend	17.04.19	2018-11-2			
6	lb/sk	Mountain Enhancer 923	PB	Bulk Blend	17.04.19				

Operation Test Results Request ID 2549558/1

Thickening Time, Request Test ID:36409857

17/APR/2019

Temp (degF)	Pressure (psi)	Reached in (min)	Start BC	30 Bc (hh:mm)	40 Bc (hh:mm)	50 Bc (hh:mm)	70 Bc (hh:mm)	100 Bc (hh:mm)
93	1214	18	1.8	2:48	2:59	3:10	3:52	3:58



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Rockies, Brighton

Lab Results- Tail

Job Information

Request/Slurry	2549559/1	Rig Name	Nabors B16	Date	16/APR/2019
Submitted By	Meghan Jacobs	Job Type	Surface Casing	Bulk Plant	Brighton
Customer	ConocoPhillips	Location		Well	Tiberius 4-64 8-7 2DH

Well Information

Casing/Liner Size	9.625 in	Depth MD	2028 ft	BHST	35°C / 95°F
Hole Size	13.5 in	Depth TVD	2028 ft	BHCT	34°C / 93°F
Pressure	1214 psi				

Cement Information - Tail Design

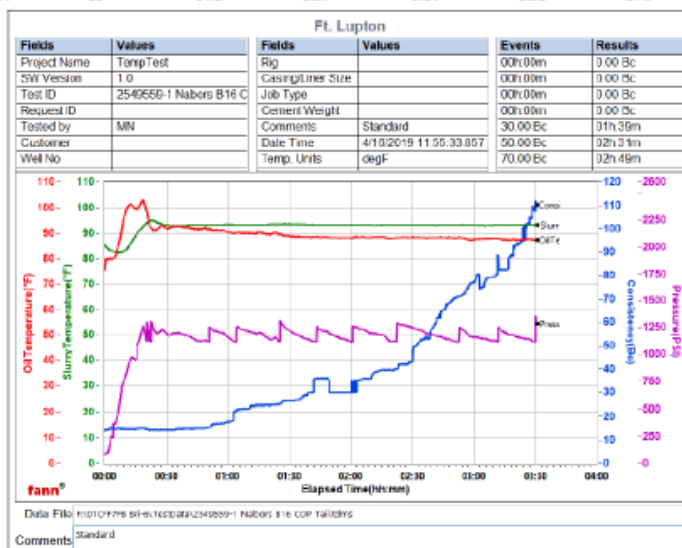
Conc	UOM	Cement/Additive	MP	Sample Type	Sample Date	Lot No.	Cement Properties		
100	% BWOC	Mountain G		Bulk Blend	17.04.19	4038	Slurry Density	14.2	lbm/gal
7.9	gal/sack	Field (Fresh) Water		Field Blend	04.04.19		Slurry Yield	1.59	ft ³ /sack
2	% BWOC	Cal-Seal 60	PB	Bulk Blend	17.04.19	Cal41619	Water Requirement	7.9	gal/sack
1.3	% BWOC	Econolite (Powder - PB)	PB	Bulk Blend	17.04.19	U11218	Total Mix Fluid	7.9	gal/sack
0.2	% BWOC	VERSASET (PB)	PB	Bulk Blend	17.04.19	2018-11-2			
6	lb/sk	Mountain Enhancer 923	PB	Bulk Blend	17.04.19				

Operation Test Results Request ID 2549559/1

Thickening Time, Request Test ID:36409859

16/APR/2019

Temp (degF)	Pressure (psi)	Reached in (min)	Start BC	30 Bc (hh:mm)	40 Bc (hh:mm)	50 Bc (hh:mm)	70 Bc (hh:mm)	100 Bc (hh:mm)
93	1214	18	14.1	1:39	2:20	2:31	2:49	3:23



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2.0 Real-Time Job Summary

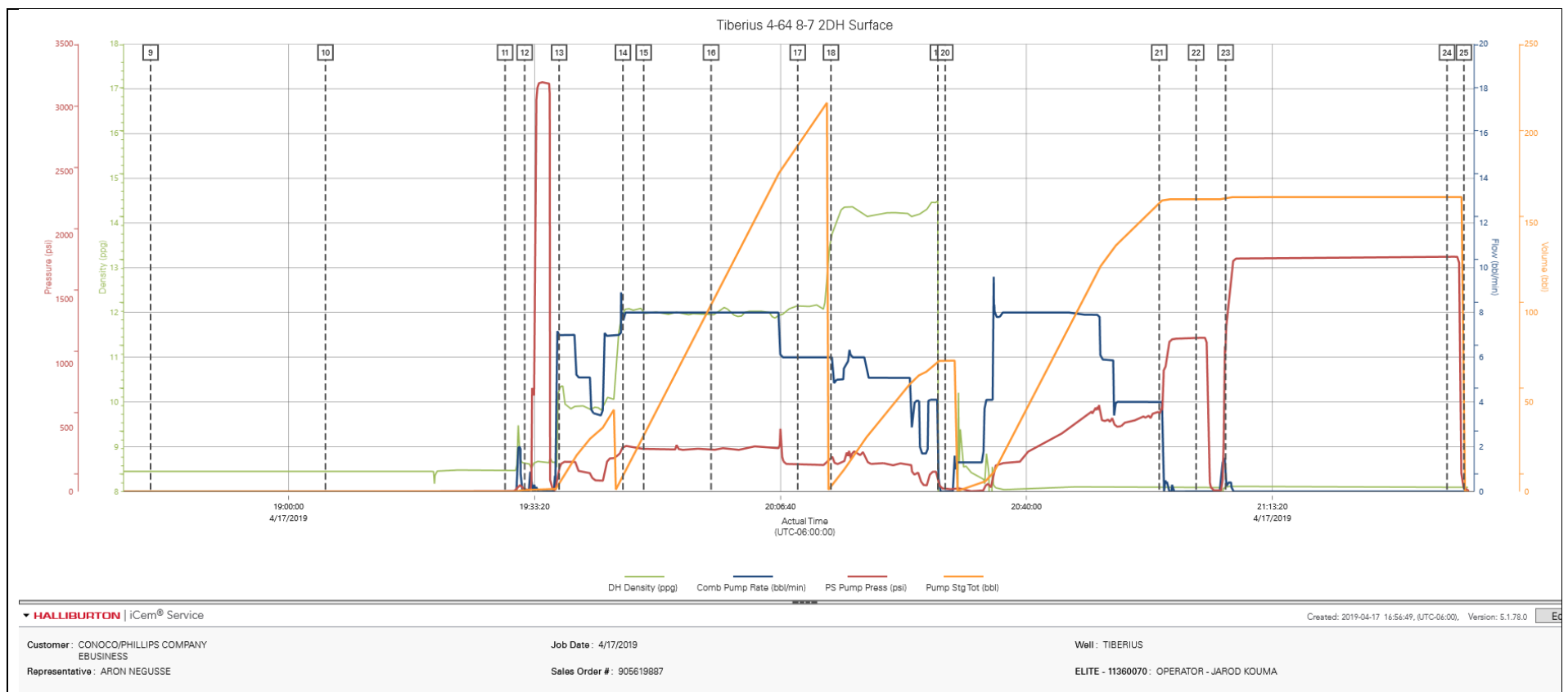
2.1 Job Event Log

Type	Seq. No.	Activity	Graph Label	Date	Time	Source	DH Density (ppg)	Comb Pump Rate (bbl/min)	PS Pump Press (psi)	Comments
Event	1	Shutdown	Shutdown	4/10/2019	20:27:00	USER				Finished pumping cement
Event	2	Call Out	Call Out	4/17/2019	02:00:00	USER				For Location @ 14:00
Event	3	Depart from Service Center or Other Site	Depart from Service Center or Other Site	4/17/2019	03:00:00	USER				Called Journey
Event	4	Arrive at Location from Service Center	Arrive at Location from Service Center	4/17/2019	04:00:00	USER				39 MILES. DISCUSS NUMBERS AND PROCEDURE WITH CUSTOMER. RIG IS DRILLING.
Event	5	Safety Meeting - Pre Rig-Up	Safety Meeting - Pre Rig-Up	4/17/2019	14:10:00	USER				JSA to discuss the hazards of rig-up
Event	6	Rig-Up Equipment	Rig-Up Equipment	4/17/2019	14:20:00	USER				Rig-up all surface lines and equipment up to the Buffer zone
Event	7	Casing on Bottom	Casing on Bottom	4/17/2019	18:15:00	USER				Landing joint brought to floor and landed
Event	8	Circulate Well	Circulate Well	4/17/2019	18:30:00	USER	8.45	0.00	-6.00	RIG UP CEMENT HEAD AND MANIFOLD FOR RIG TO CIRCULATE.
Event	9	Start Job	Start Job	4/17/2019	18:41:18	COM4	8.45	0.00	-6.00	
Event	10	Pre-Job Safety Meeting	Pre-Job Safety Meeting	4/17/2019	19:05:00	USER	8.45	0.00	1.00	With all Personnel, to discuss the hazards of pumping the job, and pump schedule.
Event	11	Start Job	Start Job	4/17/2019	19:29:21	COM4	8.47	0.00	4.00	
Event	12	Test Lines	Test Lines	4/17/2019	19:32:00	USER	8.62	0.00	19.00	Test lines @ 3180 psi
Event	13	Pump Spacer	Pump Spacer	4/17/2019	19:36:41	USER	10.38	7.00	180.00	BATCH/ WEIGHT/ PUMP 50 BBLS OF SPACER @ 10 PPG.
Event	14	Pump Lead Cement	Pump Lead Cement	4/17/2019	19:45:19	USER	12.00	8.00	339.00	BATCH/ WEIGHT/PUMP 455 sks(207.5 bbls) of Lead Swiftcem @ 12.0 ppg, verified with pressurized scales
Event	15	Check Weight	Check Weight	4/17/2019	19:48:08	COM4	11.98	8.00	330.00	

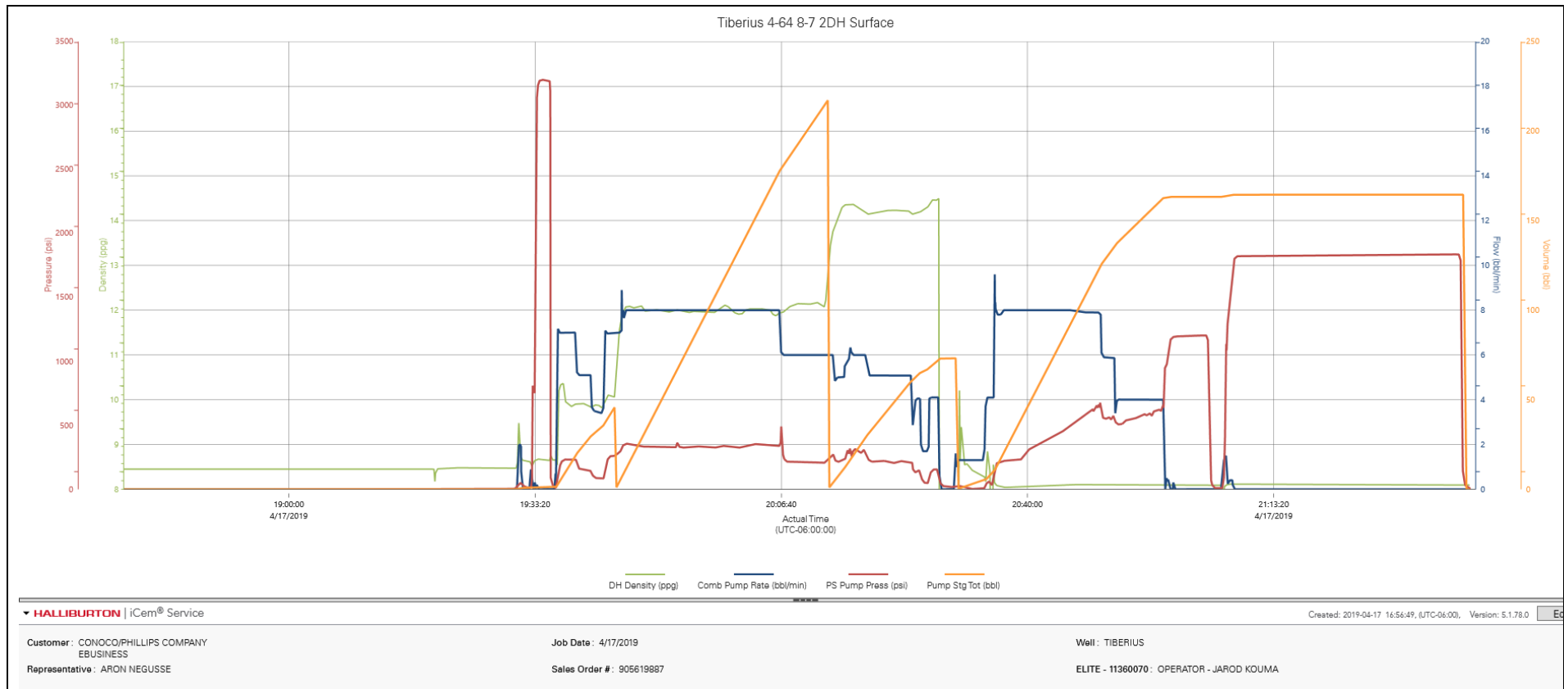
Event	16	Check Weight	Check Weight	4/17/2019	19:57:16	COM4	11.95	8.00	336.00	
Event	17	Drop Bottom Plug	Drop Bottom Plug	4/17/2019	20:09:00	USER	12.15	6.00	210.00	DROP BOTTOM PLUG @ 45 BBLS INTO SPACER
Event	18	Pump Tail Cement	Pump Tail Cement	4/17/2019	20:13:31	USER	13.61	6.00	257.00	BATCH/WEIGHT/PUMP 255 SKS (72.2 BBLS) OF TAIL CEMENT @ 14.2 PPG.
Event	19	Drop Top Plug	Drop Top Plug	4/17/2019	20:28:00	USER	14.49	4.10	96.00	Pre-loaded top plug in plug container verified by customer rep.
Event	20	Pump Displacement - Start	Pump Displacement - Start	4/17/2019	20:29:00	USER	-0.11	0.00	20.00	156.8 bbls fresh water. Washing up on top of the plug.
Event	21	Bump Plug	Bump Plug	4/17/2019	20:58:00	USER	8.09	4.00	639.00	@500 psi over final circulating pressure of 670 psi
Event	22	Check Floats	Check Floats	4/17/2019	21:03:00	USER	8.10	0.00	1201.00	Floats held. 1 bbls back
Event	23	Event	Event	4/17/2019	21:07:00	USER	8.11	1.50	1140.00	PRESSURE UP 1800 PSI FOR 30 MIN CASING TEST.
Event	24	Event	Event	4/17/2019	21:37:00	USER	8.11	0.00	1836.00	BLEED OFF PRESSURE.
Event	25	End Job	End Job	4/17/2019	21:39:17	COM4	8.10	0.00	27.00	
Event	26	Pre-Rig Down Safety Meeting	Pre-Rig Down Safety Meeting	4/17/2019	21:45:00	USER				JSA to discuss the hazards of rig-down

3.0 Attachments

3.1 Tiberius 4-64 8-7 2DH Surface – Job Chart with Events



3.2 Tiberius 4-64 8-7 2DH Surface – Job Chart without Events



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CONOCO/PHILLIPS COMPANY EBUSINESS

For: Aron Negusse

Date: Wednesday, April 24, 2019

Tiberius

Conoco Tiberius 4-64 8-7 2DH

Job Date: Wednesday, April 24, 2019

Sincerely,

Nick Kornafel & cREW

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Disclaimer:

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1.0 Cementing Job Summary

1.1 Executive Summary

Halliburton appreciates the opportunity to perform the cementing services on the cement 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 12 bbls of spacer 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 Fort Lupton

The Road to Excellence Starts with Safety

Sold To #: 352431		Ship To #: 3890170		Quote #: 0022566701		Sales Order #: 0905639588					
Customer: CONOCO/PHILLIPS COMPANY-EBUS				Customer Rep: Aron Negusse							
Well Name: TIBERIUS			Well #: 4-64 8-7 2DH		API/UWI #: 05-005-07370-00						
Field: WILDCAT		City (SAP): AURORA		County/Parish: ARAPAHOE		State: COLORADO					
Legal Description: SW NE-8-4S-64W-1586FNL-1502FEL											
Contractor:				Rig/Platform Name/Num: Nabors B16							
Job BOM: 7523 7523											
Well Type: HORIZONTAL OIL											
Sales Person: HALAMERICA\HB41307				Srvs Supervisor: Nikolaus Kornafel							
Job											
Formation Name											
Formation Depth (MD)		Top		Bottom							
Form Type				BHST							
Job depth MD		17970ft		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	STC	J-55	0	2069		0	
Casing		5.5	4.778	20	TXP-BTC	P-110	0	17970		0	
Open Hole Section			8.5				2069	17981	0	0	
Tools and Accessories											
Type	Size in	Qty	Make	Depth ft		Type	Size in	Qty	Make		
Guide Shoe	5.5	1		17970		Top Plug	5.5				
						Bottom Plug	5.5		HES		
Float Collar	5.5	1		17879							
						Plug Container	5.5	1	HES		
						Centralizers	5.5				
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	Tuned Spacer	Tuned Spacer III			60	bbl	10.5	6.71	42.9	5	2153

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	Lead Cement	ELASTICEM (TM) SYSTEM	830	sack	13.2	1.57	7.54	8	6258	
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	Tail Cement	ECONOCEM (TM) SYSTEM	1535	sack	13.5	1.79	8.74	6	13,415	
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			8		
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	Water	Water	379	bbl	8.33			8		
Cement Left In Pipe		Amount	91 ft		Reason			Shoe Joint		
Mix Water:		pH 7	Mix Water Chloride:			0 ppm		Mix Water Temperature:		54 °F
Cement Temperature:			Plug Displaced by:			8.33 lb/gal		Disp. Temperature:		54 °F
Plug Bumped?		Yes	Bump Pressure:			2560 psi		Floats Held?		Yes
Cement Returns:			Returns Density:					Returns Temperature:		
Comment PUMPED 60 BBLS OF TUNED SPACER FOLLOWED BY 232 BBLS OF LEAD CEMENT FOLLOWED BY 489 BBLS OF TAIL CEMENT, DISPLACED BY 399 BBLS OF FRESH WATER DISPLACEMENT, PLUG BUMPED AT CALCULATED DISPLACEMENT. 12 BBLS OF SPACER BACK TO SURFACE. CHECKED FLOATS, FLOATS HELD, 5BBLS BACK										

2.0 Real-Time Job Summary

2.1 Job Event Log

Type	Seq. No.	Activity	Graph Label	Date	Time	Source	DH Density (ppg)	Comb Pump Rate (bbl/min)	DS Pump Press (psi)	Pump Stg Tot (bbl)	Comments
Event	1	Event	Callout	4/23/2019	15:00:00	USER					O/L time 22:00. verify equipment and materials before leaving the yard
Event	2	Safety Meeting	Safety Meeting	4/23/2019	20:00:00	USER					Pre-trip safety meeting and then depart in route to location. Journey called in and approved.
Event	3	Event	Meet with customer representative	4/23/2019	21:30:00	USER					. MEET WITH CO. MAN TO DISCUSS JOB; SURFACE CASING- 9.625" 36 LB/FT @ 2,069, 5.5" CASING: 20 LB/FT TOTAL 17,970', 8.5" HOLE, TD 17,981', SHOE TRAC- 91', TVD- 6,800'. PUMP FRESH WATER DISPLACEMENT 399 BBLS. CASING LANDED @ 23:00 04/23/2019. RIG CIRCULATED BOTTOMS UP.
Event	4	Safety Meeting	Location Safety Meeting	4/24/2019	00:30:00	USER	8.48	0.00	-9.00	0.00	Assessment of location, and pre rig up risks and hazards.
Event	5	Safety Meeting - Pre Job	Safety Meeting - Pre Job	4/24/2019	01:00:00	USER	8.48	0.00	-7.00	0.00	discuss job procedure and hazards with Halliburton staff and 3rd party employees
Event	6	Start Job	Start Job	4/24/2019	01:34:36	COM5	8.47	0.00	-7.00	0.00	BEGIN RECORDING JOB DATA.

Event	7	Test Lines	Test Lines	4/24/2019	02:40:04	COM5	8.29	0.00	89.00	2.60	PRESSURE TESTED IRON TO 5,000 PSI. KICKOUTS SET @ 500 PSI, KICKED OUT @ 900 PSI, 5TH GEAR STALL OUT @ 2,100 PSI.
Event	8	Pump Spacer 1	Pump Spacer 1	4/24/2019	02:47:23	COM5	8.27	0.00	11.00	0.00	PUMP 60 BBLS OF TUNED SPACER @ 10.5 LB/GAL, 6.71 FT3/SK, 42.90 GAL/SK 10 GALLONS D-AIR. DENSITY VERIFIED BY PRESSURIZED MUD SCALES. PUMP RATE 5 BBLS/MIN @ 440 PSI.
Event	9	Check Weight	Check Weight	4/24/2019	02:52:00	COM5	10.69	4.50	447.00	17.50	
Event	10	Drop Bottom Plug	Drop Bottom Plug	4/24/2019	02:59:33	COM5	10.73	4.00	320.00	48.90	BOTTOM PLUG DROPPED BY HES SUPERVISOR, WITNESSED BY COMPANY MAN
Event	11	Pump Lead Cement	Pump Lead Cement	4/24/2019	03:03:02	COM5	11.54	0.00	80.00	62.20	PUMPED 830 SKS OF ELASTICEM @ 13.2 LB/GAL, 1.57 FT3/SK, 7.54 GAL/SK. 232 BBLS, HOL @ 4568' TOL @ 1466' SURFACE. DENSITY VERIFIED BY PRESSURIZED MUD SCALES. PUMP RATE 8 BBLS/MIN @ 480 PSI.
Event	12	Check Weight	Check Weight	4/24/2019	03:05:36	COM5	11.29	0.00	5.00	0.00	
Event	13	Pump Tail Cement	Pump Tail Cement	4/24/2019	03:43:32	COM5	13.01	8.00	424.00	0.10	PUMP 1,535 SKS OF ECONOCEM @ 13.2 LB/GAL, 1.79 FT3/SK, 8.74 GAL/SK, 489 BBLS. HOT CALCULATED @ 11936', TOT CALCULATED @ 6,034. DENSITY VERIFIED BY PRESSURIZED MUD SCALES. PUMP RATE 8 BBLS/MIN @ 450 PSI.
Event	14	Check Weight	Check Weight	4/24/2019	03:50:05	COM5	13.61	8.00	487.00	52.40	

Event	15	Check Weight	Check Weight	4/24/2019	04:40:31	COM5	13.53	8.00	484.00	455.80	
	16	Shutdown	Shutdown	4/24/2019	04:57:48	COM5	14.10	0.00	106.00	573.30	SHUTDOWN AFTER FINISHED PUMPING CEMENT
Event	17	Drop Top Plug	Drop Top Plug	4/24/2019	05:09:27	COM5	8.27	0.00	38.00	584.30	TOP PLUG DROPPED BY HES SUPERVISOR, WITNESSED BY COMPANY MAN
Event	18	Pump Displacement	Pump Displacement	4/24/2019	05:09:31	COM5	8.23	0.00	25.00	0.00	BEGIN CALCULATED DISPLACEMENT OF 399 BBLS WITH FRESH WATER. MMCR AND BIOCIDES POURED THROUGHOUT
Event	19	Bump Plug	Bump Plug	4/24/2019	06:09:52	COM5	8.29	0.00	3515.00	408.20	PLUG BUMPED AT CALCULATED DISPLACEMENT. 2670 PSI PRESSURED UP 1000 PSI OVER FINAL CIRCULATING PRESSURE.
Event	20	End Job	End Job	4/24/2019	06:17:24	COM5	8.28	0.00	23.00	0.00	HELD PRESSURE FOR 5 MINUTES. RELEASED PRESSURE, FLOATS HELD, 5 BBLS BACK.
Event	21	Pre-Rig Down Safety Meeting	Post-Job Safety Meeting (Pre Rig-Down)	4/24/2019	06:30:00	USER					Pre-rig down safety meeting discussing hazards.
Event	22	Crew Leave Location	Depart Location Safety Meeting	4/24/2019	10:00:00	USER					Travel risks assessed and discussed. called in a journey and had it approved

3.0 Attachments

3.1 Conoco Tiberius 4-64 8-7 2DH-Custom Results.png

