

HALLIBURTON

iCem[®] Service

EXTRACTION OIL & GAS-EBUS

Date: Wednesday, May 22, 2019

INTERCHANGE B N35-20-5C Surface

Job Date: Monday, April 01, 2019

Sincerely,

Bryce Hinsch

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 **Interchange B N35-20-5C** 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 20 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 #: 369404		Ship To #: 3901349		Quote #:		Sales Order #: 0905578630					
Customer: EXTRACTION OIL & GAS -				Customer Rep: JUSTIN							
Well Name: INTERCHANGE B			Well #: N35-20-5C			API/UWI #: 05-014-20772-00					
Field: WATTENBERG		City (SAP): BROOMFIELD		County/Parish: BROOMFIELD		State: COLORADO					
Legal Description: NE SW-10-1S-68W-2492FSL-1620FWL											
Contractor:				Rig/Platform Name/Num: Cartel 41							
Job BOM: 7521 7521											
Well Type: HORIZONTAL OIL											
Sales Person: HALAMERICA\HX38199				Srv Supervisor: Nicholas Ralston							
Job											
Formation Name											
Formation Depth (MD)		Top		Bottom							
Form Type					BHST						
Job depth MD		1646ft			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	
Open Hole Section			13.5					1646			
Casing		9.625	8.921	36				1646			
Tools and Accessories											
Type	Size in	Qty	Make	Depth ft		Type	Size in	Qty	Make		
Guide Shoe	9.625			1646		Top Plug	9.625	1	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	1	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 ft3/sack	Mix Fluid Gal	Rate bbl/min	Total Mix Fluid Gal
1	Red Dye Spacer	Red Dye Spacer			10	bbl	8.33			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
2	SwiftCem	SWIFTCEM (TM) SYSTEM	550	sack	13.5	1.74		8	9.2
9.20 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	Fresh Water	Fresh Water	121	bbl	8.33			8	
Cement Left In Pipe	Amount	44 ft			Reason			Shoe Joint	
Mix Water:		Mix Water Chloride:				Mix Water Temperature:			
Cement Temperature:		Plug Displaced by:	FRESH WATER			Disp. Temperature:			
Plug Bumped?	YES	Bump Pressure:	600-1300 PSI			Floats Held?	YES		
Cement Returns:	20	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	Recirc Density (ppg)	Comb Pump Rate (bbl/min)	DS Pump Press (psi)	Pump Stg Tot (bbl)	Comments
Event	1	Call Out	Call Out	4/1/2019	08:00:00	USER					CALL OUT FOR EXTRACTION INTERCHANGE B 9 5/8 SURFACE N35-20-5C ON LOCATION 1000
Event	2	Other	Other	4/1/2019	08:10:00	USER					HAVE ALL EQUIPMENT FROM FIRST JOB
Event	3	Arrive At Loc	Arrive At Loc	4/1/2019	10:00:00	USER					GOT NEW NUMBER FROM COMPANY MAN JUSTIN TD1642 TP 1645 OH 13 1/2 SJ 44 W 36# G J-55 MW 8.6 WATER STILL TESTED GOOD
Event	4	Other	Other	4/1/2019	17:16:54	USER	0.17	0.00	38.00	0.00	RIG STILL RUNNING CASING
Event	5	Pre-Rig Up Safety Meeting	Pre-Rig Up Safety Meeting	4/1/2019	17:30:56	USER	0.17	0.00	24.00	0.00	HELD SAFETY JSA MEETING WITH CREW
Event	6	Rig-Up Equipment	Rig-Up Equipment	4/1/2019	17:45:00	USER	8.46	0.00	1.00	0.00	EXTENDED IRON FOR NEXT JOB
Event	7	Start Job	Start Job	4/1/2019	17:59:14	COM5	8.45	0.00	1.00	0.00	STAB CEMENT HEAD
Event	8	Other	Other	4/1/2019	17:59:18	COM5	8.45	0.00	1.00	0.00	PUMP 2 BBLS TO FILL LINES
Event	9	Test Lines	Test Lines	4/1/2019	18:02:00	COM5	8.45	0.00	1.00	1.40	TEST KO TO 500 HIGH TEST TO 2000 PSI
Event	10	Pump Spacer 1	Pump Spacer 1	4/1/2019	18:03:47	COM5	8.45	1.70	20.00	1.60	PUMP 10 BBLS FRESH WATER WITH DYE AT 4 BPM AT 116 PSI
Event	11	Pump Lead Cement	Pump Lead Cement	4/1/2019	18:06:51	COM5	13.38	5.60	151.00	0.00	PUMP 550 SACKS 170 BBLS AT 13.5 PPG AT 8 BPM AT 400 PSI

Event	12	Drop Top Plug	Drop Top Plug	4/1/2019	18:39:48	COM5	2.78	0.00	3.00	241.80	DROP TOP PLUG
Event	13	Pump Displacement	Pump Displacement	4/1/2019	18:39:53	COM5	7.28	0.00	3.00	241.80	PUMP 121 FRESH WATER AT 8 BPM 164 PSI
Event	14	Bump Plug	Bump Plug	4/1/2019	19:00:58	COM5	8.28	0.00	954.00	128.00	BUMP PLUG AT 600 PSI TO 1300 PSI HELD 1 MIN CHECK FLOATS 1/2 BBLS BACK 20 BBLS CEMENT TO SURFACE
Event	15	End Job	End Job	4/1/2019	19:12:04	COM5	8.47	0.00	4.00	151.40	RIG EVERYTHING DOWN AND MOVED EQUIPMENT

3.0 Attachments

3.1 Extraction Interchange B N35-20-5C Surface Chart.png

