

HALLIBURTON

iCem® Service

EXTRACTION OIL & GAS-EBUS

INTERCHANGE B N35-20-10N

Job Date: Thursday, March 28, 2019

Sincerely,

Alexandria Dionigi

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 N35-20-10N** 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 19 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 #: 3954848		Quote #:		Sales Order #: 0905578226					
Customer: EXTRACTION OIL & GAS -				Customer Rep: JUSTIN							
Well Name: INTERCHANGE B			Well #: N35-20-10N			API/UWI #: 05-014-20844-00					
Field: WATTENBERG		City (SAP): BROOMFIELD		County/Parish: BROOMFIELD		State: COLORADO					
Legal Description: NE SW-10-1S-68W-2513FSL-1707FWL											
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		1643ft		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				0	1643		0	
Casing		9.625	8.921	36			0	1643		0	
Tools and Accessories											
Type	Size in	Qty	Make	Depth ft		Type	Size in	Qty	Make		
Guide Shoe	9.625			1643		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			50	bbl	8.33			5	
Fluid Data											
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	SWIFTCCEM (TM) SYSTEM	550	sack	13.5	1.74		7	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	124	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:		500-1063 PSI		Floats Held? YES	
Cement Returns:		19 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	DH Density (ppg)	Comb Pump Rate (bbl/min)	DS Pump Press (psi)	Pump Stg Tot (bbl)	Comments
Event	1	Arrive At Loc	Arrive At Loc	3/26/2019	18:00:00	USER					ARRIVE AT LOCATION GOT NUMBERS AND WENT OVER JOB WITH JUSTIN TD 1643 TP 1646 OH 13.5 SJ 44.20 W 36 G J-55 MW 8.6 TESTED WATER GOOD
Event	2	Other	Other	3/27/2019	20:00:00	USER					ALREADY ON LOCATION WITH PUMP AND ALL REQUIRED MATERIALS
Event	3	Call Out	Call Out	3/27/2019	21:00:00	USER					CALLED OUT FOR EXTRACTION INTERCHANGE B 9 5/8 SURFACE ON LOCATION 0100
Event	4	Other	Other	3/28/2019	12:19:16	USER	0.00	0.00	6.00	0.00	RIG DOWN LOST PUMP
Event	5	Pre-Rig Up Safety Meeting	Pre-Rig Up Safety Meeting	3/28/2019	12:19:17	USER	0.00	0.00	6.00	0.00	DISCUSS RIG UP JSA WITH CREW
Event	6	Rig-Up Equipment	Rig-Up Equipment	3/28/2019	12:19:17	USER	0.00	0.00	6.00	0.00	RIG UP ALL IRON
Event	7	Start Job	Start Job	3/28/2019	14:06:49	COM5	0.00	0.20	3.00	0.10	STAB CMT HEAD LOAD PLUG
Event	8	Test Lines	Test Lines	3/28/2019	15:00:09	COM5	8.17	0.00	68.00	8.50	TEST LO K/O 500 PSI HIGH 2000 PSI BOTH TEST GOOD
Event	9	Pump Spacer 1	Pump Spacer 1	3/28/2019	15:02:58	COM5	8.17	0.00	55.00	8.50	PUMP 20 BBL RED DYE FRESH WATER @ 5 BPM 131 PSI
Event	10	Pump Tail Cement	Pump Tail Cement	3/28/2019	15:10:51	COM5	13.46	5.90	207.00	25.60	PUMP 550 SKS 170 BBL TAIL CMT @ 13.5 PPG @ 7 BPM 173 PSI

Event	11	Pump Displacement	Pump Displacement	3/28/2019	15:41:47	COM5	8.18	5.20	9.00	0.00	SHUTDOWN DROP PLUG DISPLACE 124 BBL @ 8 BPM 90 PSI
Event	12	Bump Plug	Bump Plug	3/28/2019	16:05:00	COM5	8.17	0.00	1062.00	116.30	BUMP PLUG 500 PSI TOOK TO 1065 PSI HELD 1 MIN CHECK FLOATS 1 BBL BACK TO TRUCK GOT 19 BBL CMT TO SURFACE
Event	13	Clean Lines	Clean Lines	3/28/2019	16:10:27	COM5	8.19	0.00	-1.00	116.30	
Event	14	Pre-Rig Down Safety Meeting	Pre-Rig Down Safety Meeting	3/28/2019	16:56:43	USER					DISCUSS RIG DOWN JSA WITH CREW
Event	15	Standby Other	Standby Other	3/28/2019	16:57:13	USER					STAYING ON LOCATION FOR NEXT 9 WELLS

3.0 Custom Graphs

3.1 Custom Graph

