

HALLIBURTON

iCem® Service

EXTRACTION OIL & GAS-EBUS

INTERCHANGE B N35-20-7C

Job Date: Sunday, March 31, 2019

Sincerely,

Alexandria Dionigi

Legal Notice

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 **Interchange B N35-20-7N** 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 30 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 #: 3901283		Quote #:		Sales Order #: 0905578238				
Customer: EXTRACTION OIL & GAS -				Customer Rep: JUSTIN						
Well Name: INTERCHANGE B			Well #: N35-20-7N			API/UWI #: 05-014-20775-00				
Field: WATTENBERG		City (SAP): BROOMFIELD		County/Parish: BROOMFIELD			State: COLORADO			
Legal Description: NE SW-10-1S-68W-2500FSL-1655FWL										
Contractor:				Rig/Platform Name/Num: Cartel 41						
Job BOM: 7521 7521										
Well Type: HORIZONTAL OIL										
Sales Person: HALAMERICA\HX38199				Srcv Supervisor: Nicholas Ralston						
Well Data										
Description	New / Used	Size	ID	Weight	Thread	Grade	Top MD	Bottom MD	Top TVD	Bottom TVD
Open Hole			13.5				0	1641		0
Casing		9.625	8.921	36			0	1640		0
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			9		
Cement Left In Pipe	Amount	42			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:	480-1194	Floats Held?	YES
Cement Returns:	30 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	Call Out	Call Out	3/30/2019	15:00:00	USER					CALLED OUT FOR EXTRACTION N35-20-7N ON LOCATION 2200
Event	2	Other	Other	3/30/2019	16:00:00	USER					ALREADY ON LOCATION WITH ALL EQUIPMENT
Event	3	Arrive At Loc	Arrive At Loc	3/30/2019	22:00:00	USER					GOT NUMBER FOR THIS WELL N35-20-7N TD 1641 TP 1645 OH 13.5 SJ 42 W 36 G J-55 WATER STILL TESTING GOOD
Event	4	Other	Other	3/31/2019	02:01:24	USER	8.16	0.00	41.00	0.00	RIG RUNNING CASING
Event	5	Pre-Rig Up Safety Meeting	Pre-Rig Up Safety Meeting	3/31/2019	02:01:27	USER	8.16	0.00	41.00	0.00	DISCUSS RIG UP JSA WITH CREW
Event	6	Rig-Up Equipment	Rig-Up Equipment	3/31/2019	02:01:29	USER	8.16	0.00	41.00	0.00	
Event	7	Start Job	Start Job	3/31/2019	02:24:39	COM5	8.16	0.00	14.00	0.00	RIG RUNNING LAST JOINT OF CASING
Event	8	Test Lines	Test Lines	3/31/2019	03:31:56	COM5	8.22	0.00	62.00	1.70	TEST LINES 500 PSI TOOK TO 2000 PSI BOTH TEST GOOD
Event	9	Pump Spacer 1	Pump Spacer 1	3/31/2019	03:34:53	COM5	8.19	0.00	11.00	0.00	PUMP 10 BBL RED DYE FRESH WATER@ 4 BPM 300 PSI
Event	10	Pump Cement	Pump Cement	3/31/2019	03:38:28	COM5	12.97	8.10	379.00	0.10	PUMP 550 SKS 170 BBL CMT @ 13.5 PPG @ 8 BPM 414 PSI
Event	11	Drop Top Plug	Drop Top Plug	3/31/2019	04:05:17	COM5	8.49	1.10	14.00	194.50	DROP PLUG

Event	12	Pump Displacement	Pump Displacement	3/31/2019	04:05:20	COM5	8.16	1.10	14.00	194.60	PUMP 121 BBL FRESH WATER @ 9 BPM 320 PSI
Event	13	Bump Plug	Bump Plug	3/31/2019	04:24:29	COM5	8.55	0.00	1192.00	128.60	BUMP PLUG @ 545 PSI TOOK TO 1198 PSI HELD 1 MIN CHECK FLOATS 1/2 BBL BACK GOT 30 BBL CMT TO SURFACE
Event	14	Safety Meeting - Pre Rig-Down	Safety Meeting - Pre Rig- Down	3/31/2019	04:45:04	USER					RIG DOWN IRON SO RIG CAN MOVE

1.0 Custom Graphs

1.1 Custom Graph

