

HALLIBURTON

iCem[®] Service

SANDRIDGE ENERGY INC

Date: Friday, April 08, 2016

Hebron 0780 4-7H

Surface

Job Date: Monday, April 04, 2016

Sincerely,
Lauren Roberts

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1.0 Cementing Job Summary

1.1 Executive Summary

Halliburton appreciates the opportunity to perform the cementing services on the **Hebron 0780 4-7H** 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.

30 bbl. of cement 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 [Ft. Lupton]

The Road to Excellence Starts with Safety

Sold To #: 305021		Ship To #: 3722530		Quote #: 0022172424		Sales Order #: 0903222710					
Customer: SANDRIDGE ENERGY INC - E-BUS				Customer Rep: Chuck Marberry							
Well Name: HEBRON			Well #: 0780 4-7H		API/UWI #: 05-057-06545-00						
Field:		City (SAP): COALMONT		County/Parish: JACKSON		State: COLORADO					
Legal Description: NW NW-17-7N-80W-37FNL-554FWL											
Contractor: XTREME DRLG				Rig/Platform Name/Num: XTREME 20							
Job BOM: 7521											
Well Type: HORIZONTAL OIL											
Sales Person: HALAMERICA\HX41066				Srv Supervisor: Vaughn Oteri							
Job											
Formation Name											
Formation Depth (MD)		Top		Bottom							
Form Type				BHST							
Job depth MD		2395ft		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	LTC	J-55	0	2395			
Open Hole Section			12.25				0	2395			
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			2395		Bottom Plug	9.625				
Float Collar	9.625			2353		SSR plug set	9.625				
Insert Float	9.625					Plug Container	9.625	1	HES		
Stage Tool	9.625					Centralizers	9.625				
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	Fresh Water	Fresh Water/Red Tracer Dye			20	bbl	8.33				

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	495	sack	12.5	2.18		6	12.13
12.13 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	SwiftCem	SWIFTCEM (TM) SYSTEM	175	sack	13.5	1.76		6	8.98
8.98 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
4	Displacement Fluid	Displacement Fluid	181.88	bbl	8.4				
Cement Left In Pipe		Amount	45 ft		Reason			Shoe Joint	
Comment 30bbl of cement back to surface- HOTC-593.27 TOTC-1801.73									

2.0 Real-Time Job Summary

2.1 Job Event Log

Type	Seq. No.	Activity	Graph Label	Date	Time	Source	PS Pump Press (psi)	DH Density (ppg)	PS Pump Rate (bbl/min)	Comments
Event	1	Call Out	Call Out	4/3/2016	12:00:00	USER				Call out from ARC hub
Event	2	Arrive At Loc	Arrive At Loc	4/3/2016	20:00:00	USER				Requested on location 2200 Arrived on location 2000 met with company rep to discuss job process and concerns advised that they had to lay down MWD tool and then go back in for a wiper trip before running casing
Event	3	Other	Other	4/3/2016	20:05:00	USER				9.625 36# OH-13.5 TD-2395 TP-2395 MUD-8.33
Event	4	Other	Other	4/3/2016	20:06:00	USER				PH-7 CI-0 TEMP-60
Event	5	Start Job	Start Job	4/4/2016	09:28:44	COM4				Held pre-job safety meeting with all hands on location to discuss job process and hazards
Event	6	Prime Pumps	Prime Pumps	4/4/2016	09:32:55	COM4	39.00	8.51	2.00	Prime pumps with fresh water
Event	7	Test Lines	Test Lines	4/4/2016	12:11:36	COM4	52.00	8.30	0.00	Pressure tested pumps and lines found no leaks and pressure held good
Event	8	Pump Spacer 1	Pump Spacer 1	4/4/2016	12:13:42	COM4	9.00	8.35	0.00	Pumped 10bbl of fresh water 3.0bpm 180psi
Event	9	Check Weight	Check weight	4/4/2016	12:18:03	COM4	105.00	8.30	3.10	Confirm weight on scales
Event	10	Pump Spacer 2	Pump Spacer 2	4/4/2016	12:18:39	COM4	96.00	8.27	3.10	Pumped 10bbl of fresh water with Red Tracer Dye 3.0bpm 180psi
Event	11	Pump Lead Cement	Pump Lead Cement	4/4/2016	12:24:01	COM4	56.00	8.72	1.30	Mixed 192bbl or 495sks of 12.5ppg Y-2.18 G/SK-12.13 SwiftCem at 8.0bpm 280psi
Event	12	Pump Tail Cement	Pump Tail Cement	4/4/2016	12:51:42	COM4	179.00	13.28	7.90	Mixed 55bbl or 175sks of 13.5ppg Y-1.76 G/SK-8.98 SwiftCem at 8.0bpm 230psi
Event	13	Check Weight	Check weight	4/4/2016	12:55:56	COM4	69.00	13.48	3.20	confirm weight on scales
Event	14	Shutdown	Shutdown	4/4/2016	13:02:18	COM4	41.00	12.55	1.70	
Event	15	Drop Plug	Drop Plug	4/4/2016	13:02:54	COM4	5.00	-0.39	0.00	Released plug witnessed by company rep
Event	16	Pump Displacement	Pump Displacement	4/4/2016	13:04:20	COM4	8.00	-0.34	1.10	Pumped 181.88bbl of drill mud to displace cement

Event	17	Displ Reached Cmnt	Displ Reached Cmnt	4/4/2016	13:13:03	COM4	138.00	8.14	8.10	Caught cement
Event	18	Bump Plug	Bump Plug	4/4/2016	13:32:59	COM4	1856.00	7.50	0.00	Bumped plug 500psi over final pump pressure
Event	19	Other	Other	4/4/2016	13:37:55	COM4	143.00	7.60	0.00	Released pressure back to pump truck to check floats, floats held good .5bbl back
Event	20	End Job	End Job	4/4/2016	13:41:34	COM4	5.00	7.60	0.00	30bbl of cement back to surface HOTC-593.27 TOTC-1801.73

3.0 Attachments

3.1 Case 1-Custom Results.png

