

HALLIBURTON

iCem® Service

EXTRACTION OIL & GAS

Date: Tuesday, September 06, 2016

Varra #7

Surface

Job Date: Thursday, September 01, 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 **Varra #7** 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.

33 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 #: 369404		Ship To #: 3563336		Quote #:		Sales Order #: 0903450509					
Customer: EXTRACTION OIL & GAS -				Customer Rep: Larry Siegel							
Well Name: VARRA			Well #: 7		API/UWI #: 05-123-39987-00						
Field: WATTENBERG		City (SAP): WINDSOR		County/Parish: WELD		State: COLORADO					
Legal Description: NW SW-5-6N-67W-1589FSL-788FWL											
Contractor:				Rig/Platform Name/Num: White Mountain							
Job BOM: 7521											
Well Type: HORIZONTAL OIL											
Sales Person: HALAMERICA\HX38199				Srvc Supervisor: Steve McCoy							
Job											
Formation Name											
Formation Depth (MD)		Top		Bottom							
Form Type				BHST							
Job depth MD		1571ft		Job Depth TVD							
Water Depth				Wk Ht Above Floor	4 FT						
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			0	1571	0	1571	
Open Hole Section			13.5				0	1571	0	1571	
Tools and Accessories											
Type	Size in	Qty	Make	Depth ft		Type	Size in	Qty	Make		
Guide Shoe	9.625			1571		Top Plug	9.625				
Float Shoe	9.625					Bottom Plug	9.625				
Float Collar	9.625			1528.5		SSR plug set	9.625				
Insert Float	9.625					Plug Container	9.625		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			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	565	sack	13.5	1.74		6	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 Displacement	Fresh Water Displacement	118.2	bbl	9			8	
Cement Left In Pipe		Amount	42 ft		Reason			Shoe Joint	
Comment									

2.0 Real-Time Job Summary

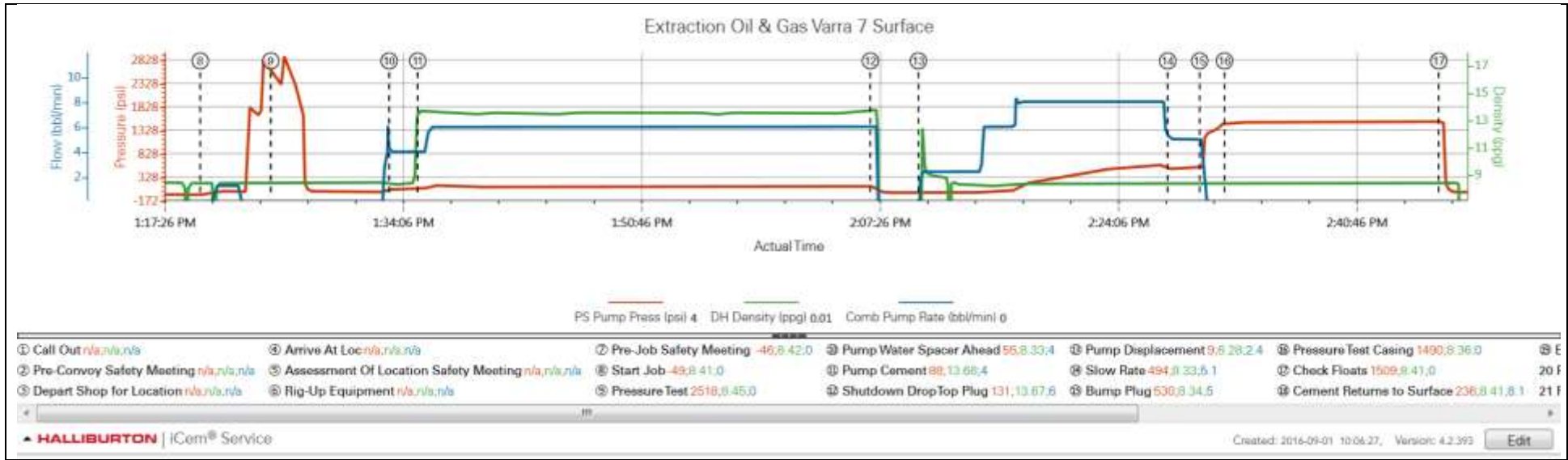
2.1 Job Event Log

Type	Seq. No.	Activity	Graph Label	Date	Time	Source	Pass-Side Pump Pressure (psi)	Downhole Density (ppg)	Combined Pump Rate (bbl/min)	Comments
Event	1	Call Out	Call Out	9/1/2016	03:00:00	USER				Requested on Location @ 0800
Event	2	Pre-Convoy Safety Meeting	Pre-Convoy Safety Meeting	9/1/2016	05:30:00	USER				
Event	3	Depart Shop for Location	Depart Shop for Location	9/1/2016	05:35:00	USER				
Event	4	Arrive At Loc	Arrive At Loc	9/1/2016	07:00:00	USER				
Event	5	Assessment Of Location Safety Meeting	Assessment Of Location Safety Meeting	9/1/2016	07:15:00	USER				
Event	6	Rig-Up Equipment	Rig-Up Equipment	9/1/2016	07:30:00	USER				
Event	7	Pre-Job Safety Meeting	Pre-Job Safety Meeting	9/1/2016	13:15:00	USER	-46.00	8.42	0.00	
Event	8	Start Job	Start Job	9/1/2016	13:20:05	COM16	-49.00	8.41	0.00	
Event	9	Pressure Test	Pressure Test	9/1/2016	13:25:01	USER	2518.00	8.45	0.00	Pressure test lines pressure bleed off no visible leaks
Event	10	Pump Water	Pump Water Spacer Ahead	9/1/2016	13:33:18	USER	55.00	8.33	4.00	Pump Water Spacer
Event	11	Pump Cement	Pump Cement	9/1/2016	13:35:18	USER	88.00	13.68	4.00	Mixed & Pumped 565 sks SwiftCem @ 13.5 ppg, 1.74 y, 9.2 gps
Event	12	Shutdown	Shutdown DropTop Plug	9/1/2016	14:06:57	USER	131.00	13.67	6.00	Drop Top Plug Co Man witnessed
Event	13	Pump Displacement	Pump Displacement	9/1/2016	14:10:18	USER	9.00	6.28	2.40	118.2 bbls of fresh water displacement
Event	14	Slow Rate	Slow Rate	9/1/2016	14:27:44	USER	494.00	8.33	5.10	Slowed rate to 5 pm to bump plug
Event	15	Bump Plug	Bump Plug	9/1/2016	14:29:58	USER	530.00	8.34	5.00	final circulating pressure was 570 psi
Event	16	Pressure Test	Pressure Test Casing	9/1/2016	14:31:42	USER	1490.00	8.36	0.00	Pressure test casing 1500 psi 15 min
Event	17	Check Floats	Check Floats	9/1/2016	14:46:42	USER	1509.00	8.41	0.00	Floats held 1 bbl back to truck

Event	18	Cement Returns to Surface	Cement Returns to Surface	9/1/2016	14:50:00	USER	236.00	8.41	8.10	circulated 33 bbls cement to surface
Event	19	End Job	End Job	9/1/2016	14:54:14	COM16	36.00	8.38	2.10	
Event	20	Post-Job Safety Meeting (Pre Rig-Down)	Post-Job Safety Meeting (Pre Rig-Down)	9/1/2016	15:00:00	USER	11.00	8.35	2.10	
Event	21	Rig-Down Equipment	Rig-Down Equipment	9/1/2016	15:05:00	USER				
Event	22	Pre-Convoy Safety Meeting	Pre-Convoy Safety Meeting	9/1/2016	15:55:00	USER				
Event	23	Depart Location for Shop	Depart Location for Shop	9/1/2016	16:00:00	USER				

3.0 Attachments

3.1 Extraction Oil & Gas Varra 7-Custom Results.png



3.2 Extraction Oil & Gas Varra 7-Custom Results 2.png

