

HALLIBURTON

iCem[®] Service

BONANZA CREEK ENERGY RESOURCES, LLC

For:

Date: Wednesday, September 03, 2014

Latham T34-P31-2HC

Case 1

Sincerely,
Sheldon Cotts

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1.1 Executive Summary

Halliburton appreciates the opportunity to perform the cementing services on the **Latham T34-P31-2HC 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.

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 [Brighton]

Job Times

	Date	Time	Time Zone
Called Out	6/2/14	2000	MST
On Location	6/3/14	0100	MST
Job Started	6/3/14	1043	MST
Job Completed	6/3/14	1213	MST

1.2 Cementing Job Summary

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Call for service

Monday, June 02, 2014 3:11:50 PM

The Road to Excellence Starts with Safety											
Sold To #: 324725			Ship To #: 3281209			Primary Sales Order #: 0901398688					
Customer: BONANZA CREEK ENERGY						Job Purpose: 7521 CMT SURFACE CASING BOM					
Well Name: LATHAM				Well #: T34-P31-2 HC				API/UWI #: 05-123-38789-00			
Field: WATTENBERG			City: KERSEY			Country/Parish: WELD			State/Prov: COLORADO		
Legal Description:											
Rig Name & Number / Phone Number: CADE 26 / 832-461-4633								Location: LAND			
myCem id#:			Job Criticality Status: GREEN			iFacts Request id#:					
Contacts											
Type	Name			Email			Phone				
Company Man	Lee						832-461-4633				
Account Rep	Jon Gregory			Jon.Gregory@Halliburton.com			+19702104722				
Service Coordinator	Ryan Wyckoff			Ryan.Wyckoff@halliburton.com			+17205386044				
PPE, Safety Huddles, JSA's, HOC & Near Miss Reporting, BBP Observations											
Distance/Mileage(1 way) Srvc:			35 mile			Distance/Mileage(1 way) Mtls:			35 mile		
						Rqstd Job Start Date/Time:			06/07/2014		
H2S Present:			Unknown			CO2 Present:			Unknown		
Drive Safely. Lights On for Safety. Wear Seat Belts. Observe all HES / Customer Safety Policies.											
Directions:											
Hwy 34 East to Cr 69, North on Cr 69 ¾ miles, East into at the Guard Shack											
Job Data											
Job Depth (MD) ft	Job Depth (TVD) ft	Well Fluid Type			Well Fluid Weight lbm/gal		Displacement Fluid	Displ Fluid Weight lbm/gal			
815					8.4		Displacement	8.33			
BHST degF	BHCT degF	Log Temp degF				Time Since Circ Stopped HH:MM:SS					
Description	Size in	Weight lbm/ft	ID in	Thread	Grade	Top MD ft	Btm MD ft	Top TVD ft	Btm TVD ft	Shoe Jnt ft	% Excess
Open Hole			13.5			0	815		0		100
9-5/8" Surface Casing	9.625	36	8.921	STC	J-55	0	798			42	
The condition of the drilling fluid is one of the most important variables in achieving a cement barrier. Prior to cementing, circulate the mud at the planned highest displacement rate for the cement job for at least 2 bottoms-up until the well is clean, mud is free of gas and pump pressures have stabilized.											

Call For Service
 Sales Order #:0901398688

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Stage/Plug #: 1										
Fluid #	Fluid Name	Package/SBM/Material Name	Rqstd Del Qty	UOM	Density lbm/gal	Yield ft ³ /sack	Water Req Gal/sack	Rate bbl/min	Total Mix Fluid Gal/sack	Surface Batch Mixing Time
1	Mud Flush III (Powder)		24	bbl	8.4			6		
iFacts Test id #										
Fluid #	Fluid Name	Package/SBM/Material Name	Rqstd Del Qty	UOM	Density lbm/gal	Yield ft ³ /sack	Water Req Gal/sack	Rate bbl/min	Total Mix Fluid Gal/sack	Surface Batch Mixing Time hr
2	Lead Cement	SWIFTCEM (TM) SYSTEM	350	sack	13.5	1.75	9.23	6	9.23	
iFacts Test id #										
Fluid #	Fluid Name	Package/SBM/Material Name	Rqstd Del Qty	UOM	Density lbm/gal	Yield ft ³ /sack	Water Req Gal/sack	Rate bbl/min	Total Mix Fluid Gal/sack	Surface Batch Mixing Time
3	Displacement		28.5	bbl	8.33			6		
iFacts Test id #										

1.3 Planned Pumping Schedule

- 1. Fill Lines with Water**
 - a. Density = 8.33 lb/gal
 - b. Volume = 2 bbls
- 2. Pressure Test Lines to 3500 psi**
- 3. Pump Water Spacer**
 - a. Density = 8.33 lb/gal
 - b. Volume = 10 bbl
 - c. Rate = 3.0 bpm
- 4. Pump Mud Flush**
 - a. Density = 8.33 lb/gal
 - b. Volume = 12 bbl
 - c. Rate = 3.0 bpm
- 5. Pump Water Spacer**
 - a. Density = 8.33 lb/gal
 - b. Volume = 10 bbl
 - c. Rate = 3.0 bpm
- 6. Pump SwiftCem (Primary)**
 - a. Density = 13.5
 - b. Yield = 1.75 ft³/sk
 - c. Water Requirement = 9.23 gal/sk
 - d. Volume = 350 sks (109 bbls)
 - e. Rate = 8.0 bpm
- 7. Drop Top Plug**
- 8. Start Displacement**
- 9. Pump Displacement Water**
 - a. Density = 8.33 lb/gal
 - b. Volume = 56.5 bbls
 - c. Rate = 5.0 bpm
10. Land Plug – Anticipated Final Circulation Pressure 250 psi

Calculated Total Displacement = 56.5 bbls

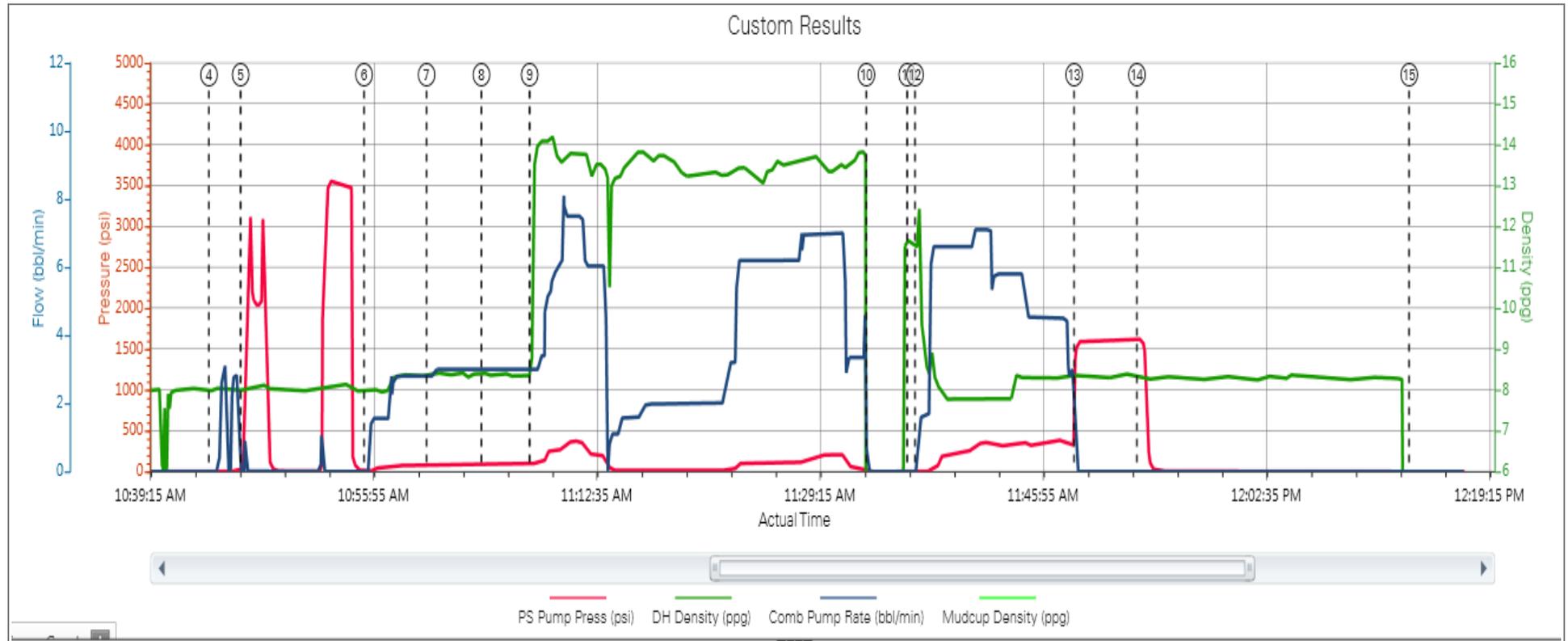
1.4 Job Event Log

Type	Seq. No.	Activity	Graph Label	Date	Time	Source	PS Pump Press (psi)	DH Density (ppg)	Comb Pump Rate (bbl/min)	Mudcup Density (ppg)	Comment
Event	1	Call Out	Call Out	6/2/2014	20:00:00	USER					CALL OUT FROM ARS OFFICE
Event	2	Arrive At Loc	Arrive At Loc	6/3/2014	01:00:00	USER					ARRIVE ON LOCATION MET WITH COMPANY REP TO DISCUSS JOB PROCESS AND CONCERNS ADVISED THAT THEY WERE TRIPPING DRILL PIPE
Event	3	Casing on Bottom	Casing on Bottom	6/3/2014	08:30:00	USER					ADVISED BY COMPANY REP THAT CASING WAS ON BOTTOM AND WAS SAFE TO RIG UP TO RIG FLOOR
Event	4	Start Job	Start Job	6/3/2014	10:43:49	COM6	-1.00	7.96	0.00	0.00	HELD PREJOB SAFTY MEETING WITH ALL HANDS ON LOCATION TO DISCUSS JOB PROCESS AND HAZARDS
Event	5	Test Lines	Test Lines	6/3/2014	10:46:10	COM6	30.00	7.97	0.00	0.00	PRESSURE TESTED PUMPS AND LINES FOUND LEAK AT STAND PIPE RELEASED PRESSURE AND TIGHTEN UP AND RETESTED
Event	6	Pump Spacer 1	Pump Spacer 1	6/3/2014	10:55:23	COM6	4.00	7.97	0.00	0.00	PUMPED 10BBL OF FRESH WATER AT 3BPM 77 PSI
Event	7	Pump Spacer 2	Pump Spacer 2	6/3/2014	11:00:03	COM6	77.00	8.38	2.80	0.00	MIXED 12BBL OF MUD FLUSH AT 3BPM 85PSI
Event	8	Pump Spacer 1	Pump Spacer 1	6/3/2014	11:04:09	COM6	89.00	8.42	3.00	0.00	PUMPED 10BBL OF FRESH WATER WITH RED TRACER DYE AT 3BPM 85PSI
Event	9	Pump Cement	Pump Cement	6/3/2014	11:07:45	COM6	95.00	9.75	3.00	0.00	MIXED 109BBL OF 13.5PPG SWIFTCEM AT 8BPM 95PSI
Event	10	Shutdown	Shutdown	6/3/2014	11:32:54	COM6	11.00	-0.23	0.00	0.00	
Event	11	Drop Top Plug	Drop Top Plug	6/3/2014	11:35:57	COM6	-6.00	11.60	0.00	0.00	RELEASED PLUG WITNESSED BY COMPANY

											REP
Event	12	Pump Displacement	Pump Displacement	6/3/2014	11:36:32	COM6					PUMPED 56.5BBL OF FRESH WATER TO DISPLACE CEMENT
Event	13	Bump Plug	Bump Plug	6/3/2014	11:48:25	COM6	1542.00	8.32	0.00	0.00	BUMP PLUG 500PSI OVER FINAL PUMP PRESSURE
Event	14	Other	Other	6/3/2014	11:53:06	COM6	1619.00	8.34	0.00	0.00	RELEASED PRESSURE BACK TO PUMP TRUCK TO CHECK FLOATS , FLOATS HELD GOOD
Event	15	End Job	End Job	6/3/2014	12:13:26	USER	-1.00	-0.02	0.00	0.00	20.2BBL OF CEMENT BACK TO SURFACE

2.0 Custom Graphs

2.1 Custom Graph



3.0 Appendix

Insert Planned Pump Schedule from Proposal or actual Job Procedure built for job