

HALLIBURTON

iCem[®] Service

BONANZA CREEK ENERGY RESOURCES, LLC

For: Tim

Date: Thursday, February 19, 2015

LATHAM T-P-2HNB

Case 1

Job Date: Sunday, June 29, 2014

Sincerely,

Sheldon Cotts

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1.0 Cementing Job Summary

1.1 Executive Summary

Halliburton appreciates the opportunity to perform the cementing services on the **Latham T-P-2HNB** cement **Intermediate** 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 Time:	6/29/14	0400	MST
Arrived On Location At:	6/29/14	0745	MST
Job Started At:	6/29/14	1311	MST
Job Completed At:	6/29/14	1536	MST

1.2 Planned Pumping Schedule

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Cementing Job Summary

The Road to Excellence Starts with Safety

Sold To #: 324725	Ship To #: 3281211	Quote #:	Sales Order #: 0901460974							
Customer: BONANZA CREEK ENERGY		Customer Rep: TIM								
Well Name: LATHAM	Well #: T-P-2 HNB	API/UWI #: 05-123-38788-00								
Field: WATTENBERG	City (SAP): KERSEY	County/Parish: WELD	State: COLORADO							
Legal Description: SW SE-2-4N-63W-352FSL-2220FEL										
Contractor:		Rig/Platform Name/Num: Cade 26								
Job BOM: 7522										
Well Type: HORIZONTAL OIL										
Sales Person: HALAMERICA/HX46524		Srv Supervisor: Vaughn Oteri								
Job										
Formation Name										
Formation Depth (MD)	Top	Bottom								
Form Type		BHST								
Job depth MD	6715ft	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			0	410		
Casing		7	6.276	26		P-110	0	6770		
Open Hole Section			8.75				410	6770		
Tools and Accessories										
Type	Size in	Qty	Make	Depth ft	Type	Size in	Qty	Make		
Guide Shoe	7	1		6770	Top Plug	7	1	HES		
Float Shoe	7	1			Bottom Plug	7	1	HES		
Float Collar	7	1			SSR plug set	7	1	HES		
Insert Float	7	1			Plug Container	7	1	HES		
Stage Tool	7	1			Centralizers	7	1	HES		
Miscellaneous Materials										
Gelling Agt		Conc		Surfactant		Conc	Acid Type		Qty	Conc
Treatment Fld		Conc		Inhibitor		Conc	Sand Type		Size	Qty
Fluid Data										
Stage/Plug #: 1										
Fluid #	Stage Type	Fluid Name	Qty	Qty UoM	Mixing Density lbm/gal	Yield ft ³ /sack	Mix Fluid Gal	Rate bbl/min	Total Mix Fluid Gal	
1	Mud Flush III (Powder)	Mud Flush III	24	bbl	8.4			6		
42 gal/bbl		FRESH WATER								

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Cementing Job Summary

Fluid #	Stage Type	Fluid Name	Qty	Qty UoM	Mixing Density lbm/gal	Yield ft ³ /sack	Mix Fluid Gal	Rate bbl/min	Total Mix Fluid Gal
2	Lead Cement	ECONOCEM (TM) SYSTEM	523	sack	12.5	1.89		5	10.23
10.23 Gal		FRESH WATER							
Fluid #	Stage Type	Fluid Name	Qty	Qty UoM	Mixing Density lbm/gal	Yield ft ³ /sack	Mix Fluid Gal	Rate bbl/min	Total Mix Fluid Gal
3	Tail Cement	EXPANDACEM (TM) SYSTEM	291	sack	14.6	1.45		5	6.04
6.04 Gal		FRESH WATER							
Fluid #	Stage Type	Fluid Name	Qty	Qty UoM	Mixing Density lbm/gal	Yield ft ³ /sack	Mix Fluid Gal	Rate bbl/min	Total Mix Fluid Gal
4	Displacement	Displacement	254	bbl	8.33				
Cement Left In Pipe Amount 42 ft Reason Shoe Joint									
Comment 14BBL OF CEMENT BACK TO SURFACE									

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)	Comb Pump Rate (bbl/min)	Comments
Event	1	Call Out	Call Out	6/29/2014	04:00:00	USER				CALL OUT FROM ARS OFFICE
Event	2	Arrive at Rig	Arrive at Rig	6/29/2014	07:45:00	USER				ARRIVE ON LOCATION MET WITH COMPANY REP TO DISCUSS JOB PROCESS AND CONCERNS ADVISED THAT THEY STILL HAD 52 JOINTS OF CASING TO RUN
Event	3	Casing on Bottom	Casing on Bottom	6/29/2014	11:30:00	USER				ADVISED BY RIG CREW THAT CASING WAS ON BOTTOM AND WAS SAFE TO RIG UP TO THE FLOOR, RIG WAS HAVING TROUBLE WITH ROTATING HEAD
Event	4	Start Job	Start Job	6/29/2014	13:11:30	COM6	-4.00	8.34	0.00	PRELOADED PLUG INTO CEMENT HEAD WITNESSED BY COMPANY REP, HELD PREJOB SAFTY MEETING IN DOG HOUSE WITH ALL HANDS ON LOCATION TO DISCUSS JOB PROCESS AND HAZARDS
Event	5	Test Lines	Test Lines	6/29/2014	13:20:07	COM6	-1.00	8.35	0.00	PRESSURE TESTED PUMPS AND LINES FOUND NO LEAKS AND PRESSURE HELD GOOD
Event	6	Pump Spacer 1	Pump Spacer 1	6/29/2014	13:26:17	COM6	3.00	8.40	0.00	PUMPED 10BBL OF FRESH WATER 3BPM 454PSI
Event	7	Pump Spacer 2	Pump Spacer 2	6/29/2014	13:31:10	COM6	446.00	8.34	3.00	MIXED 24BBL OF MUD FLUSH AT4BPM 307PSI

Event	8	Pump Spacer 1	Pump Spacer 1	6/29/2014	13:37:31	COM6	532.00	8.46	4.10	PUMPED 10BBL OF FRESH WATER 4BPM 529PSI
Event	9	Pump Lead Cement	Pump Lead Cement	6/29/2014	13:40:03	COM6	529.00	8.32	4.10	MIXED 176BBL OF 12.5PPG ECONOCEM AT 8.0BPM 440PSI
Event	10	Pump Tail Cement	Pump Tail Cement	6/29/2014	14:06:33	COM6	138.00	14.60	4.60	MIXED 75BBL OF 14.6PPG EXPANDACEM AT 6.5BPM 323PSI
Event	11	Shutdown	Shutdown	6/29/2014	14:20:02	COM6	42.00	13.29	0.00	
Event	12	Drop Top Plug	Drop Top Plug	6/29/2014	14:22:34	COM6	2.00	13.20	0.00	RELEASED PLUG WITNESSED BY COMPANY REP
Event	13	Pump Displacement	Pump Displacement	6/29/2014	14:23:34	COM6	3.00	13.31	0.00	PUMPED 9.3PPG DRILL MUD TO DISPLACE
Event	14	Bump Plug	Bump Plug	6/29/2014	15:09:27	COM6	2594.00	8.28	0.00	BUMP PLUG 500PSI OVER FINAL PUMP PRESSURE
Event	15	Other	Other	6/29/2014	15:11:23	COM6	2680.00	8.28	0.00	RELEASE PRESSURE BACK TO PUMP TRUCK TO CHECK FLOATS, FLOATS HELD GOOD
Event	16	Other	Other	6/29/2014	15:13:28	COM6	15.00	8.27	0.40	PRESSURE TEST CASING PER BONANZA CREEK POLICY
Event	17	End Job	End Job	6/29/2014	15:36:18	COM6	1.00	-0.20	0.00	14BBL OF CEMENT BACK TO SURFACE

2.2 Custom Graph

