

HALLIBURTON

iCem[®] Service

BONANZA CREEK ENERGY

For:

Date: Tuesday, September 30, 2014

BONANZA CREEK STATE SEVENTY HOLES 11-14-3 HNB

BONANZA CREEK STATE SEVENTY HOLES 11-14-3 HNB`

Sincerely,
Sheldon Cotts

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1.1 Executive Summary

Halliburton appreciates the opportunity to perform the cementing services on the **State Seventy Holes 11-14-3 HNB** 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
On Location	4/12/14	1600	MST
Job Started	4/12/14	1658	MST
Job Completed	4/12/14	2000	MST

1.2 Cementing Job Summary

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Cementing Job Summary

The Road to Excellence Starts with Safety

Sold To #: 324725	Ship To #: 3282856	Quote #: 0021850542	Sales Order #: 0901260052							
Customer: BONANZA CREEK ENERGY		Customer Rep:								
Well Name: STATE SEVENTY HOLES	Well #: 11-14-3 HNB	API/UW #: 05-123-38882-00								
Field: WILDCAT	City (SAP): KER	County/Parish: WELD	State: COLORADO							
Legal Description: NW NW-3-4N-62W-364FNL-635FWL										
Contractor:		Rig/Platform Name/Num: Cade 26								
Job BOM: 7522										
Well Type: HORIZONTAL OIL										
Sales Person: HALAMERICA/HX46524		Srvc Supervisor: Joseph Fantasia								
Job										
Formation Name										
Formation Depth (MD)	Top	Bottom								
Form Type		BHST								
Job depth MD	6578ft	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	465		0
Casing		7	6.276	26		P-110	0	6578		0
Open Hole Section			8.75				465	6580	0	0
Tools and Accessories										
Type	Size in	Qty	Make	Depth ft	Type	Size in	Qty	Make		
Guide Shoe	7			6578	Top Plug	7		HES		
Float Shoe	7				Bottom Plug	7		HES		
Float Collar	7				SSR plug set	7		HES		
Insert Float	7				Plug Container	7		HES		
Stage Tool	7				Centralizers	7		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			5		
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 ft3/sack	Mix Fluid Gal	Rate bbl/min	Total Mix Fluid Gal
2	Lead Cement	ECONOCEM (TM) SYSTEM	529	sack	12.5	1.89		7	10.25
10.25 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	Tail Cement	EXPANDACEM (TM) SYSTEM	219	sack	14.6	1.45		6	6.05
6.05 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	Displacement	250	bbl	9.3			8	
Cement Left in Pipe		Amount	42 ft		Reason		Shoe Joint		
Comment									

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 4000 psi**
- 3. Pump Water Spacer**
 - a. Density = 8.33 lb/gal
 - b. Volume = 20 bbl
 - c. Rate = 5 bpm
- 4. Pump Mud Flush**
 - a. Density = 8.33 lb/gal
 - b. Volume = 24 bbl
 - c. Rate = 3 bpm
- 5. Pump Water Spacer**
 - a. Density = 8.33 lb/gal
 - b. Volume = 10 bbl
 - c. Rate = 3 bpm
- 6. Drop Bottom Plug**
- 7. Pump EconoCem (Lead)**
 - a. Density = 12.5 lb/gal
 - b. Yield = 1.89 ft³/sk
 - c. Water Requirement = 10.25 gal.sk
 - d. Volume = 529 sks (178 bbls)
 - e. Rate = 7 bpm
- 8. Pump ExpandaCem (Tail)**
 - a. Density = 14.6 lb/gal
 - b. Yield = 1.45 ft³/sk
 - c. Water Requirement = 6.05 gal/sk
 - d. Volume = 219 sks (56 bbls)
 - e. Rate = 5.0 bpm
- 9. Drop Top Plug**
- 10. Start Displacement**
- 11. Pump Displacement Water**
 - a. Density = 9.5 lb/gal
 - b. Volume = 250 bbls
 - c. Rate = 8.0 bpm
- 12. Land Plug – Anticipated Final Circulation Pressure 2243 psi**

Calculated Total Displacement = 250 bbls

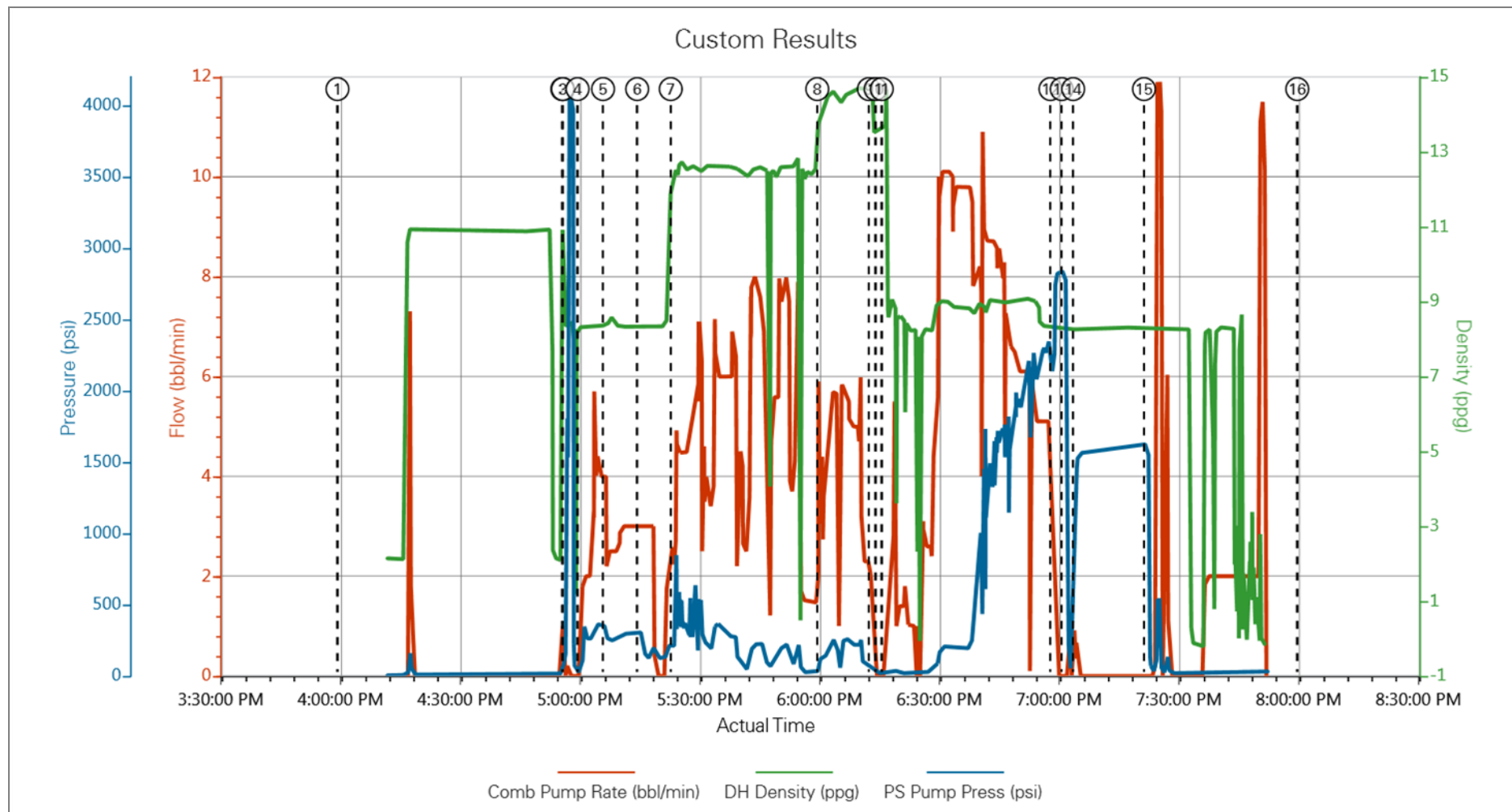
1.4 Job Event Log

Type	Seq. No.	Activity	Graph Label	Date	Time	Source	Combined Pump Rate (bbl/min)	Downhole Density (ppg)	Pass-Side Pump Pressure (psi)	Comment
Event	1	Arrive at Location from Service Center	Arrive at Location from Service Center	4/12/2014	16:00:00	USER				ARRIVE AT LOCATION AND PERFORM SITE ASSESSMENT WITH CREW.
Event	2	Start Job	Start Job	4/12/2014	16:56:18	COM4	0.00	8.34	160.00	PERFORM PREJOB SAFETY MEETING WITH ALL PRESENT PERSONNEL.
Event	3	Test Lines	Test Lines	4/12/2014	16:56:28	COM4	0.00	8.31	159.00	PRESSURE TEST LINES TO 4000 PSI
Event	4	Pump Spacer 1	Pump Spacer 1	4/12/2014	17:00:08	COM4	0.00	8.34	25.00	PUMP 20 BBLS WATER
Event	5	Pump Spacer 2	Pump Spacer 2	4/12/2014	17:06:31	COM4	2.50	8.38	278.00	PUMP 24 BBLS MUDFLUSH
Event	6	Pump Spacer 1	Pump Spacer 1	4/12/2014	17:15:04	COM4	3.00	8.35	308.00	PUMP 10 BBLS WATER
Event	7	Pump Lead Cement	Pump Lead Cement	4/12/2014	17:23:29	COM4	2.30	12.49	207.00	PUMP 178 BBLS (529 SKS) ECONOCEM MIXED AT 12.5 PPG USING SUPPLIED WATER. DENSITY VERIFIED BY SCALE.
Event	8	Pump Tail Cement	Pump Tail Cement	4/12/2014	18:00:11	COM4	3.20	13.90	98.00	PUMP 56 BBLS (219 SKS) EXPANDACEM MIXED AT 14.6 PPG USING SUPPLIED WATER. DENSITY VERIFIED BY SCALE.
Event	9	Shutdown	Shutdown	4/12/2014	18:13:06	COM4	1.00	14.72	66.00	
Event	10	Drop Top Plug	Drop Top Plug	4/12/2014	18:14:47	COM4	0.00	13.70	20.00	TOP PLUG PRELOADED.
Event	11	Pump Displacement	Pump Displacement	4/12/2014	18:16:20	COM4	1.00	13.67	21.00	GOOD RETURNS THROUGHOUT. CEMENT TO SURFACE AT 240 BBLS INTO 250 BBLS TOTAL DISPLACEMENT. APPROX 10 BBLS CEMENT TO SURFACE.
Event	12	Bump Plug	Bump Plug	4/12/2014	18:58:35	COM4	4.00	8.34	2243.00	PLUG LANDED AT 2243 PSI. PRESSURE BROUGHT TO

										2600 PSI AND HELD 3 MIN.
Event	13	Check Floats	Check Floats	4/12/2014	19:01:24	USER	0.00	8.36	2793.00	FLOATS HELD 2 BBLS BACK
Event	14	Pressure Test	Pressure Test	4/12/2014	19:04:17	USER	0.00	8.26	1499.00	PRESSURE UP TO 1500 PSI AND HOLD FOR 15 MIN FOR CASING PRESSURE TEST.
Event	15	Check Floats	Check Floats	4/12/2014	19:22:01	USER	0.00	8.32	1627.00	FLOATS HELD.
Event	16	End Job	End Job	4/12/2014	20:00:24	USER				PERFROM POSTJOB RIG DOWN SAFETY MEETING WITH CREW.

2.0 Custom Graphs

2.1 Custom Graph



3.0 Appendix

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