HALLIBURTON

BONANZA CREEK ENERGY OPERATING CO
PO BOX 21974
BAKERSFIELD, California

State Seventy Holes 34-31-6 HNB

Ensign 136

Post Job Summary
Cement Intermediate Casing

Date Prepared: 9/27/13
Version: 1

Service Supervisor: PICKELL, CHRISTOPHER

Submitted by: LANSDALE, JUSTIN

HALLIBURTON

HALLIBURTON

Wellbore Geometry

Job Tubulars					MD		TVD		Shoe Joint Length ft
Type	**Description**	**Size in**	**ID in**	**Wt lbm/ft**	**Top ft**	**Bottom ft**	**Top ft**	**Bottom ft**	
Open Hole Section	8 3/4" Open Hole Section		8.750		475.00	6,797.00	475.00	6,266.00	
Casing	7" Intermediate Casing	7.00	6.276	26.00	0.00	6,797.00	0.00	6,266.00	41.86
Casing	Surface Casing	9.63	8.921	36.00	0.00	475.00			

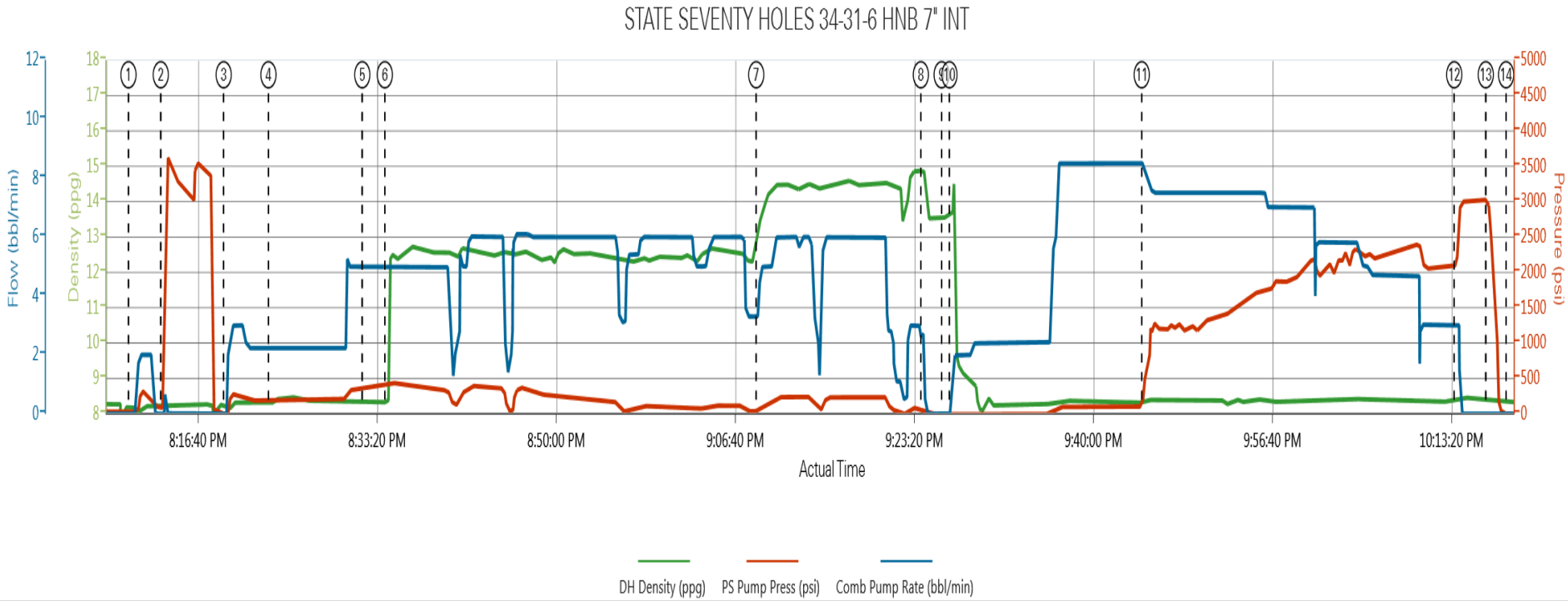
HALLIBURTON

Pumping Schedule

Stage /Plug #	Fluid #	Fluid Type	Fluid Name	Surface Density lbm/gal	Avg Rate bbl/min	Surface Volume	Downhole Volume
1	1	Spacer	MUD FLUSH III	2.5	0.00	24.0 bbl	24.0 bbl
1	2	Cement Slurry	EconoCem B3	6.0		558.0 sacks	558.0 sacks
1	3	Cement Slurry	ExpandaCem B1	6.0		252.0 sacks	252.0 sacks
1	4	Spacer	Mud Displacement	6.0			258.0 bbls

HALLIBURTON

Data Acquisition



① Start Job 8.19;28;0
② Test Lines 8.15;84;0
③ Pump Water 8.18;-4;0
④ Pump Mudflush 8.3;190;2.3
⑤ Pump Water 8.32;370;5
⑥ Pump Econocem 12.5# 8.34;404;5
⑦ Pump Expandacem 14.6# 13.26;53;3.9
⑧ Shutdown 14.87;70;2.7
⑨ Drop Top Plug 13.53;-9;0
⑩ Pump Displacement 13.67;-9;0
⑪ Displ Reached Cmnt 8.35;424;8.5
⑫ Bump Plug 8.38;2171;3
⑬ Check Floats 8.35;2987;0
⑭ End Job 8.35;-1;0

HALLIBURTON | iCem® Service

Created: 2013-09-20 18:59:46, Version: 2.0.606 Edit

Customer: BONANZA CREEK ENERGY
Representative: CHRISTOPHER PICKELL
Job Date: 9/20/2013 7:05:42 PM
Sales Order #: 900758649
Well: STATE SEVENTY HOLES 34-31-6 HNB

HALLIBURTON

Service Supervisor Reports

Job Log

Date/Time	Chart #	Activity Code	Pump Rate	Cum Vol	Pump		Pressure (psig)		Comments
09/20/2013 12:45		Depart Yard Safety Meeting							SAFETY MEETING TO DISCUSS ROUTE TO LOCATION. INCLUDING TRAFFIC HAZARDS AND DETOURS DUE TO FLOODS
09/20/2013 13:00		Depart from Service Center or Other Site							LEAVE THE YARD FOR LOCATION
09/20/2013 15:30		Arrive At Loc							ARRIVE AT LOCATION. RIG HAD 35 JOINTS OF CASING LEFT TO RUN
09/20/2013 18:45		Pre-Rig Up Safety Meeting							SAFETY MEETING TO DISCUSS SPOTTING IN EQUIPMENT AND RIGGING UP. RIG DONE RUNNING CASING AT 1900
09/20/2013 19:00		Rig-Up Equipment							SPOT IN ON DOG HOUSE SIDE OF RIG AND RIG UP BULK TRUCKS, WATER LINE, AND IRON TO THE WELL
09/20/2013 19:50		Pre-Job Safety Meeting							SAFETY MEETING TO WITH ALL ON LOCATION TO DISCUSS JOB SAFETY AND PROCEDURE
09/20/2013 20:10		Start Job							
09/20/2013 20:13		Test Lines	1	3				3500.0	PRESSURE TEST LINES TO 3500 PSI. CHECK FOR VISIBLE LEAKS AND PRESSURE LOSS
09/20/2013 20:19		Pump Spacer 1	2.5	20				200.0	PUMP WATER
09/20/2013 20:23		Pump Spacer 2	5	24				200.0	PUMP MUDFLUSH
09/20/2013 20:32		Pump Spacer 1	5	10				210.0	PUMP WATER
09/20/2013 20:34		Pump Lead Cement	6	188				400.0	PUMP ECONOCEM CEMENT 558 SKS 12.5 PPG 1.89 CUFT/SK 10.28 GAL/SK MIXED WITH RIG WATER
09/20/2013 21:08		Pump Tail Cement	6	66.5				300.0	PUMP EXPANDACEM CEMENT 252 SKS 14.6 PPG 1.46 CUFT/SK 6.07 GAL/SK MIXED WITH RIG WATER
09/20/2013 21:24		Shutdown							WASH PUMPS AND LINES ON TOP OF THE PLUG
09/20/2013 21:26		Drop Top Plug							PLUG PRELOADED. WITNESSED BY COMPANY MAN
09/20/2013 21:26		Pump Displacement	6.0	258.8				2300.0	PUMP DISPLACEMENT USING WATER
09/20/2013 21:44		Displ Reached Cmnt							DISPLACEMENT REACHED CEMENT WITH 89 BBL AWAY
09/20/2013 22:13		Bump Plug	3					2171.0	CALCULATED PRESSURE TO LAND WAS 1409. PLUG LANDED WITH 2171 PSI GOING 500 PSI OVER FINAL LIFT

HALLIBURTON

Date/Time	Chart #	Activity Code	Pump Rate	Cum Vol	Pump		Pressure (psig)		Comments
09/20/2013 22:16		Check Floats							PRESSURE WAS HELD FOR 3 MINUTES THEN RELEASED. FLOATS HELD. 2 BBL BACK TO THE TRUCK
09/20/2013 22:18		End Job							23 BBL OF CEMENT BACK TO SURFACE
09/20/2013 22:20		Pre-Rig Down Safety Meeting							DISCUSS RIG DOWN SAFETY AND PROCEDURE
09/20/2013 22:30		Rig-Down Equipment							RIG DOWN ALL EQUIPMENT
09/20/2013 23:20		Safety Meeting - Departing Location							SAFETY MEETING TO DISCUSS JOURNEY BACK TO THE YARD
09/20/2013 23:30		Depart Location for Service Center or Other Site							LEAVE LOCATION FOR THE YARD

HALLIBURTON

Cementing Job Summary

The Road to Excellence Starts with Safety

Sold To #: 324725	**Ship To #:** 3106876	**Quote #:**	**Sales Order #:** 900758649
Customer: BONANZA CREEK ENERGY OPERATING CO		**Customer Rep:** Bradley, John	
Well Name: State Seventy Holes	**Well #:** 34-31-6 HNB	**API/UWI #:**	
Field: WATTENBERG	**City (SAP):** KERSEY	**County/Parish:** Weld	**State:** Colorado
Contractor: Ensign	**Rig/Platform Name/Num:** Ensign 136		
Job Purpose: Cement Intermediate Casing			
Well Type: Development Well	**Job Type:** Cement Intermediate Casing		
Sales Person: FLING, MATTHEW	**Srvc Supervisor:** PICKELL, CHRISTOPHER	**MBU ID Emp #:** 396838	

Job Personnel

HES Emp Name	Exp Hrs	Emp #	HES Emp Name	Exp Hrs	Emp #	HES Emp Name	Exp Hrs	Emp #
JEWELL, WILLIAM Uris	0.0	503358	MYRE, JAMES	0.0	549859	PICKELL, CHRISTOPHER Lee	0.0	396838
REED, PAUL	0.0	123456	TAUILIILI, SAIAIGA	0.0	545471			

Equipment

HES Unit #	*Distance-1 way*	HES Unit #	*Distance-1 way*	HES Unit #	*Distance-1 way*	HES Unit #	*Distance-1 way*
10246780C	80 mile	10972458	80 mile	10988836C	80 mile	11019275C	80 mile
11036295C	80 mile	11605597	80 mile	11667703C	80 mile		

Job

Formation Name			
Formation Depth (MD)	**Top**	**Bottom**	
Form Type		**BHST**	
Job depth MD	6797. ft	**Job Depth TVD**	6266. ft
Water Depth		**Wk Ht Above Floor**	5. ft
Perforation Depth (MD)	*From*	**To**	

Job Times

	Date	Time	Time Zone
Called Out	20 - Sep - 2013	10:00	MST
On Location	20 - Sep - 2013	15:30	MST
Job Started	20 - Sep - 2013	20:10	MST
Job Completed	20 - Sep - 2013	22:18	MST
Departed Loc	20 - Sep - 2013	23:30	MST

Well Data

Description	New / Used	Max pressure psig	Size in	ID in	Weight lbm/ft	Thread	Grade	Top MD ft	Bottom MD ft	Top TVD ft	Bottom TVD ft
8 3/4" Open Hole Section				8.75				475.	6797.	475.	6266.
7" Intermediate Casing	Unknown		7.	6.276	26.		P-110	.	6797.	.	6266.
Surface Casing	Unknown		9.625	8.921	36.		J-55	.	475.		

Sales/Rental/3rd Party (HES)

Description	Qty	Qty uom	Depth	Supplier
CMT CASING EQUIPMENT BOM	1	JOB		
MILEAGE FOR CEMENTING CREW,ZI	70	MI		
ZI FUEL SURCHG-CARS/PICKUPS<1 1/2TON	70	MI		
Description	**Qty**	**Qty uom**	**Depth**	**Supplier**
SHOE,FLT,7 8RD,2-3/4 SS II VLV	1	EA		
CLR,FLT,7 LG 8RD 23-26PPF,2-3/4	1	EA		
KIT,HALL WELD-A	2	EA		
PLUG,CMTG,TOP,7,HWE,5.66 MIN/6.54 MAX CS	1	EA		

Fluid Data

HALLIBURTON

Cementing Job Summary

Stage/Plug #: 1									
Fluid #	**Stage Type**	**Fluid Name**	**Qty**	**Qty uom**	**Mixing Density lbm/gal**	**Yield ft3/sk**	**Mix Fluid Gal/sk**	**Rate bbl/min**	**Total Mix Fluid Gal/sk**
1	**MUD FLUSH III**	**MUD FLUSH III - SBM (528788)**	**24.00**	**bbl**	**8.4**			**2.5**	
2	**EconoCem B3**	**ECONOCEM (TM) SYSTEM (452992)**	**558.0**	**sacks**	**12.5**	**1.89**	**10.28**	**6.0**	**10.28**
2 %		HALLIBURTON GEL, 50 LB SK (100064040)							
3	**ExpandaCem B1**	**EXPANDACEM (TM) SYSTEM (452979)**	**252.0**	**sacks**	**14.6**	**1.46**	**6.07**	**6.0**	**6.07**
6.07 Gal		FRESH WATER							
4	**Mud Displacement**			**bbl**	**9.8**			**6.0**	

Rates							
Circulating		*Mixing*		*Displacement*		**Avg. Job**	
Cement Left In Pipe	**Amount**	***41.86 ft***	*Reason*	***Shoe Joint***			
Frac Ring # 1 @		*ID*		*Frac ring # 2 @*		*ID*	
Frac Ring # 3 @		*ID*		*Frac Ring # 4 @*		*ID*	

The Information Stated Herein Is Correct	***Customer Representative Signature***