

**BONANZA CREEK ENERGY OPERATING CO
PO BOX 21974
BAKERSFIELD, California**

State Antelope 41-44-30HNB

Ensign 128

Post Job Summary **Cement Intermediate Casing**

Prepared for:
Date Prepared: 7/15/2013
Version: 1

Service Supervisor: BIRCHELL, DEVIN

Submitted by: FINNEY, SEAN

HALLIBURTON

HALLIBURTON

Wellbore Geometry

Job Tubulars					MD		Shoe Joint Length ft
Type	Description	Size in	ID in	Wt lbm/ft	Top ft	Bottom ft	
Casing	9 5/8" Surface Casing	9.63	8.921	36.00	0.00	410.00	42.00
Open Hole Section	8 3/4" Open Hole Section		8.750		410.00	6,850.00	0.00
Casing	7" Intermediate Casing	7.00	6.276	26.00	0.00	6,850.00	42.00

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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	8.40	4.00	24.0 bbls	24.0 bbls
1	2	Cement Slurry	12.5# EconoCem Lead	12.50	5.00	550.0 sacks	550.0 sacks
1	3	Cement Slurry	14.6 ExpandaCem	14.60	5.00	230.0 sacks	230.0 sacks

Fluids Pumped

Stage/Plug # 1 Fluid 1: Mud Flush
 DUMMY MUD / FLUSH / SPACER SBC MATERIAL
 42 gal/bbl Mud Flush III
 1.66 lbm/bbl Mud Flush III

Fluid Density: 8.40 lbm/gal
 Pump Rate: 4.00 bbl/min

Stage/Plug # 1 Fluid 2: 12.5# EconoCem Lead
 ECONOCEM (TM) SYSTEM

Fluid Weight: 12.50 lbm/gal
 Slurry Yield: 1.89 ft³/sack
 Total Mixing Fluid: 10.29 Gal

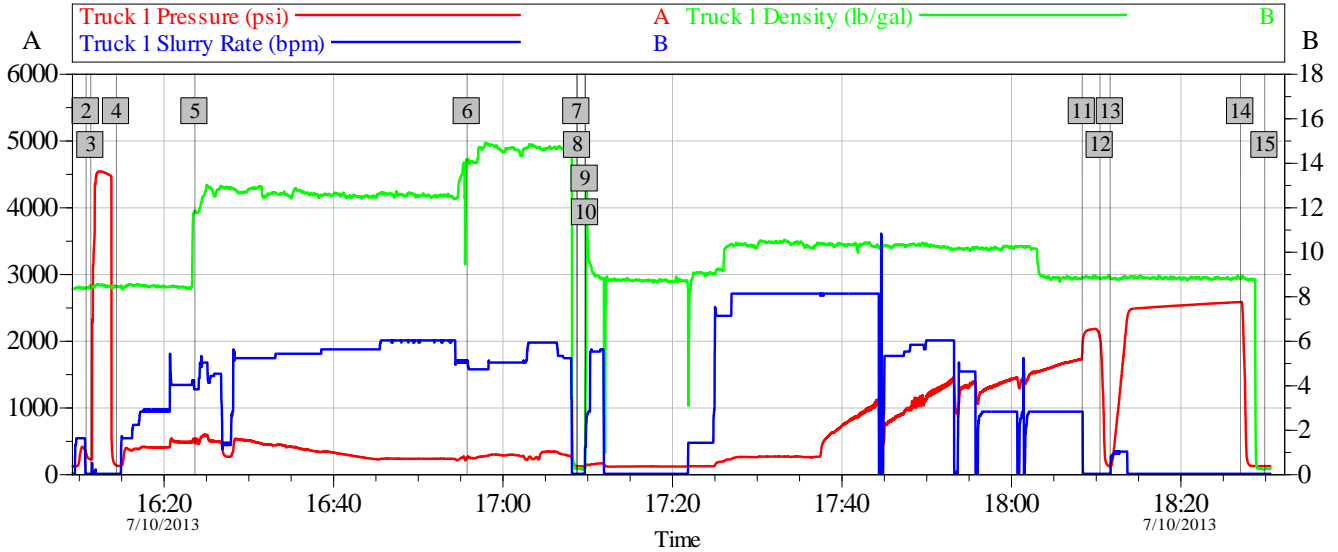
Stage/Plug # 1 Fluid 3: 14.6 ExpandaCem
 EXPANDACEM (TM) SYSTEM

Fluid Weight: 14.60 lbm/gal
 Slurry Yield: 1.46 ft³/sack
 Total Mixing Fluid: 6.07 Gal

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Data Acquisition

Bonanza Creek Energy State Antelope 41-44-30HNB Intermediate Job Summary Chart



Global Event Log					
Intersection	psi	Intersection	psi	Intersection	psi
2 Start Job	16:10:54 313.7	3 Test Lines	16:11:27 217.0	4 Pump Spacer 1	16:14:29 125.9
5 Pump Lead Cement	16:23:44 468.7	6 Pump Tail Cement	16:55:52 253.6	7 Shutdown	17:08:48 116.0
8 Clean Lines	17:08:53 114.0	9 Drop Top Plug	17:09:47 111.7	10 Pump Displacement	17:09:50 113.9
11 Bump Plug	18:08:27 1799	12 Check Floats	18:10:34 2031	13 Casing Test	18:11:46 115.3
14 End Test	18:27:08 2574	15 Job Complete	18:30:00 116.0		

Customer: Bonanza Energy	Job Date: 10-Jul-2013	Sales Order #: 900578967
Job Description: Intermediate	UWI:	Red Tiger #: 11488570
Service Supervisor: Devin Birchell	Service Operator: Geoffrey Miller	Service Leader: None

OptiCem v6.4.10
10-Jul-13 18:30

HALLIBURTON

Service Supervisor Reports

Job Log

Date/Time	Chart #	Activity Code	Pump Rate	Cum Vol	Pump	Pressure (psig)	Comments
07/10/2013 08:30		Call Out					Called Out Cement Crew For Bonanza Creek Energy State Antelope 41-44-30HNB Intermediate
07/10/2013 10:28		Pre-Convoy Safety Meeting					Discussed Hazards On Route To Location, Weather, Other Traffic, Route
07/10/2013 10:30		Depart from Service Center or Other Site					
07/10/2013 13:00		Arrive At Loc					Arrived To Location Talked With Company Rep On Volumes, Rates, Depths
07/10/2013 15:00		Pre-Rig Up Safety Meeting					Discussed Hazards With Cement Crew For Rigging Up Iron and Water Hoses
07/10/2013 15:05		Rig-Up Equipment					
07/10/2013 15:45		Pre-Job Safety Meeting					Discussed Job Procedures With Cement and Rig Crews
07/10/2013 16:04		Rig-Up Completed					Finished Rigging Up To The Floor And Well Head
07/10/2013 16:06		Prime Pumps					Primed Pumps and Lines For Pressure Test
07/10/2013 16:11		Pressure Test				4590.0	Test Pump and Lines to 4590 psi
07/10/2013 16:14		Pump Spacer 1	4	24		473.0	Pumped 24 bbls Mud Flush III Spacer
07/10/2013 16:24		Pump Lead Cement	5	185		234.0	Pumped 185 bbls (550sks) 12.5 ppg Lead, Yield 1.89 ft3/sk Water 10.29 gal/sk
07/10/2013 16:55		Pump Tail Cement	5	60		253.0	Pumped 60 bbls (230sks) 14.6 ppg Tail, Yield 1.49 ft3/sk Water 6.07 gal/sk
07/10/2013 17:08		Clean Lines					Washed Pump and Lined on Plug
07/10/2013 17:09		Drop Plug					Dropped Plug With Driller Witnessing
07/10/2013 17:09		Pump Displacement	8				Pumped 10 bbls Fresh Water 230 bbls Mud 10 bbls Fresh Water Displacement
07/10/2013 17:53		Spacer Returns to Surface	4.5	214		1325.0	24 bbls Mud Flush III Spacer Returns To Surface
07/10/2013 17:58		Slow Rate					Slowed Rate To Bump Plug
07/10/2013 18:03		Cement Returns to Surface	3	238		1667.0	9 bbls Cement Returns To Surface
07/10/2013 18:08		Bump Plug	3	248		1706.0	Pumped Plug With 1706 psi Took Pressure to 2160 psi
07/10/2013 18:10		Check Floats					Checked Floats, Floats Held With 1 bbls Back To Truck
07/10/2013 18:11		Pressure Up				2480.0	Pressured Casing to 2480 Held for 15 Minutes
07/10/2013 18:30		Job Complete					
07/10/2013 18:35		Post-Job Safety Meeting (Pre Rig-Down)					Discussed Hazards With Crew For Rigging Down Iron and Water Hoses
07/10/2013 18:40		Rig-Down Equipment					
07/10/2013 19:20		Rig-Down Completed					
07/10/2013 19:25		Pre-Convoy Safety Meeting					Discussed Hazards On Route To Service Center, Weather, Other Traffic, Route
07/10/2013 19:30		Depart Location for Service Center or Other Site					Thank You For Using Halliburton Energy Services

The Road to Excellence Starts with Safety

Sold To #: 324725		Ship To #: 3007104		Quote #:		Sales Order #: 900578967	
Customer: BONANZA CREEK ENERGY OPERATING CO				Customer Rep: Ensign, 128			
Well Name: State Antelope			Well #: 41-44-30HNB		API/UWI #:		
Field: WATTENBERG		City (SAP): KERSEY		County/Parish: Weld		State: Colorado	
Job Purpose: Cement Intermediate Casing							
Well Type: Development Well				Job Type: Cement Intermediate Casing			
Sales Person: PLIENESS, RYAN			Srvc Supervisor: BIRCHELL, DEVIN			MBU ID Emp #: 466993	

Job Personnel

HES Emp Name	Exp Hrs	Emp #	HES Emp Name	Exp Hrs	Emp #	HES Emp Name	Exp Hrs	Emp #
BIRCHELL, DEVIN Ray	0.0	466993	CHISLUM, DENNIS	0.0	512130	MILLER, GEOFFREY Alan	0.0	460232

Equipment

HES Unit #	Distance-1 way	HES Unit #	Distance-1 way	HES Unit #	Distance-1 way	HES Unit #	Distance-1 way

Job Hours

Date	On Location Hours	Operating Hours	Date	On Location Hours	Operating Hours	Date	On Location Hours	Operating Hours

TOTAL Total is the sum of each column separately

Job

Job Times

Formation Name				Date	Time	Time Zone
Formation Depth (MD)	Top	Bottom		Called Out		
Form Type	BHST			On Location		
Job depth MD	6850. ft	Job Depth TVD		Job Started		
Water Depth		Wk Ht Above Floor		Job Completed		
Perforation Depth (MD)	From	To		Departed Loc		

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				410.	6850.		
7" Intermediate Casing	Unknown		7.	6.276	26.		P-110	.	6850.		
9 5/8" Surface Casing	Unknown		9.625	8.921	36.		J-55	.	410.		

Fluid Data

Stage/Plug #: 1

Fluid #	Stage Type	Fluid Name	Qty	Qty uom	Mixing Density lbm/gal	Yield ft ³ /sk	Mix Fluid Gal/sk	Rate bbl/min	Total Mix Fluid Gal/sk

1	Mud Flush		24.0	bbl	8.4	.0	.0	4.0	
	42 gal/bbl	MUD FLUSH III - SBM (528788)							
	1.66 lbm/bbl	MUD FLUSH III, 40 LB SACK (101633304)							
2	12.5# EconoCem Lead	ECONOCEM (TM) SYSTEM (452992)	550.0	sacks	12.5	1.89	10.29	5.0	10.29
	10.29 Gal	FRESH WATER							
3	14.6 ExpandaCem	EXPANDACEM (TM) SYSTEM (452979)	230.0	sacks	14.6	1.46	6.07	5.0	6.07
	6.07 Gal	FRESH WATER							
Calculated Values		Pressures		Volumes					
Displacement		Shut In: Instant		Lost Returns		Cement Slurry		Pad	
Top Of Cement		5 Min		Cement Returns		Actual Displacement		Treatment	
Frac Gradient		15 Min		Spacers		Load and Breakdown		Total Job	
Rates									
Circulating		Mixing		Displacement		Avg. Job			
Cement Left In Pipe	Amount	42 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					

