

**ENSIGN UNITED STATES DRILLING
PO BOX 17805
DENVER, Colorado**

SRC Leffler 14-26NHZ

Ensign 17

Post Job Summary **Cement Intermediate Casing**

Date Prepared: 11/5/2013
Version: 1

Service Supervisor: BARRAS, JOSEPH

Submitted by: GROVES, COREY

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	Open Hole		8.750		571.00	7,693.00	571.00	7,330.00	
Casing	Surface Casing	9.63	8.921	36.00	0.00	571.00			
Casing	7" INTERMEDIATE	7.00	6.276	26.00	0.00	7,693.00	0.00	7,330.00	42.00

HALLIBURTON

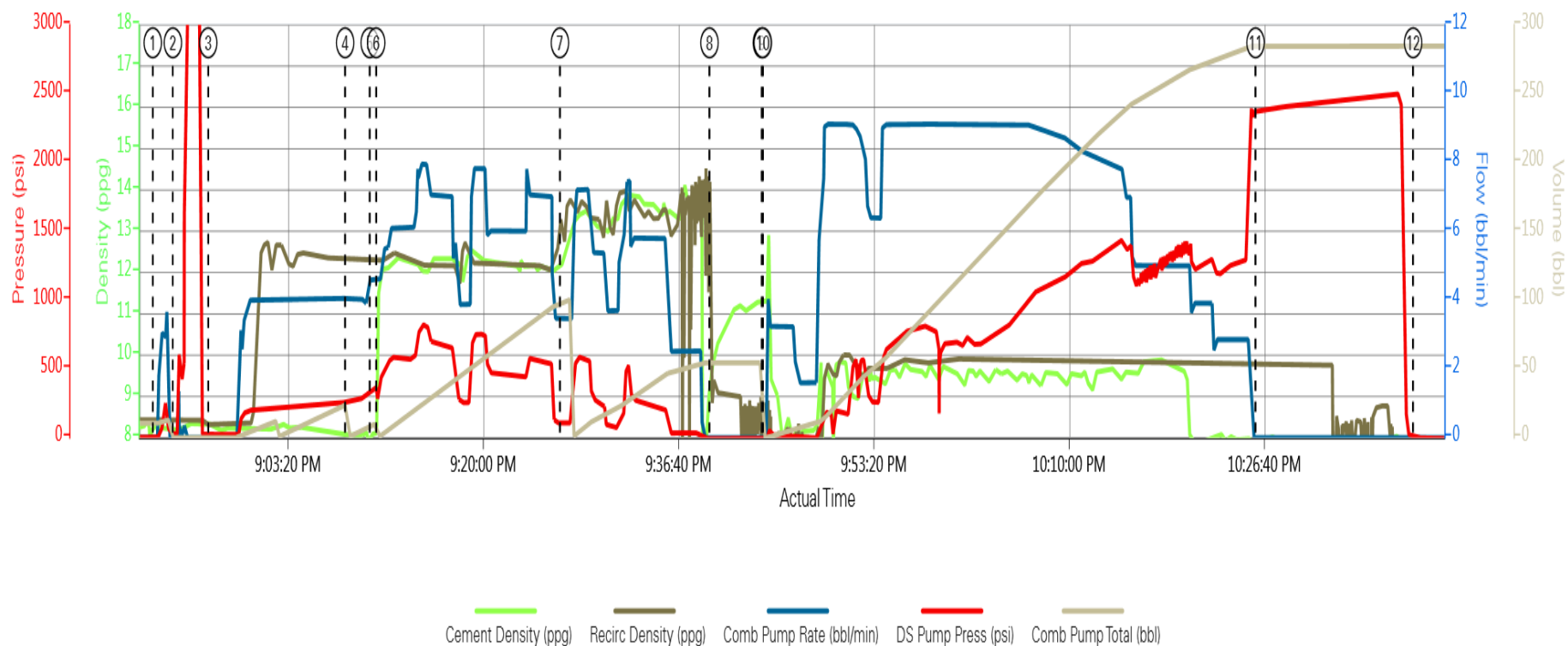
Pumping Schedule

Stage /Plug #	Fluid #	Fluid Type	Fluid Name	Surface Density lbm/gal	Avg Rate bbl/min	Surface Volume	Downhole Volume
1	1	Spacer	Fresh Water Spacer	8.33	4.00	10.0 bbl	10.0 bbl
1	2	Spacer	Mud Flush	8.40	5.00	24.0 bbl	24.0 bbl
1	3	Spacer	Fresh Water Spacer	8.33	4.00	10.0 bbl	10.0 bbl
1	4	Cement Slurry	Lead Cement	12.30	7.50	328.0 sacks	328.0 sacks
1	5	Cement Slurry	Tail Cement	13.50	5.00	193.0 sacks	193.0 sacks
1	6	Spacer	Displacement	8.00	8.00	290 bbls	290 bbls

HALLIBURTON

Data Acquisition

ENSIGN SCR LEFFLER 14-26NHZ 7IN



HALLIBURTON

Service Supervisor Reports

Job Log

Date/Time	Chart #	Activity Code	Pump Rate	Cum Vol	Pressure (psig)	Comments
10/28/2013 15:00		Arrive at Location from Service Center				rig still running casing
10/28/2013 18:45		Casing on Bottom				rigging down casing crew
10/28/2013 19:10		Rig-Up Equipment				rigging up HES trucks/
10/28/2013 20:00		Rig-Up Completed				
10/28/2013 20:05		Safety Meeting - Pre Job				with HES and rig crew
10/28/2013 20:51		Start Job				
10/28/2013 20:53		Test Lines				test lines to 2000 psi noi visible leaks
10/28/2013 20:56		Pump Spacer 1	4	10	190.0	rig water
10/28/2013 21:08		Pump Spacer 2	5	24	200.0	rig water with mud flush
10/28/2013 21:09		Pump Spacer 1	4	10	170.0	rig water
10/28/2013 21:10		Pump Lead Cement	7.5	135	740.0	mixed with rig water @ 112.3 ppg /328 sks of extendacem 2.31 yield/2.31 gal/sk
10/28/2013 21:26		Pump Tail Cement	5	60	700.0	mixed with rig water @ 13.5 ppg 193 sks of fraccem 1.74 yield /1.74
10/28/2013 21:39		Shutdown				
10/28/2013 21:43		Drop Top Plug				preloaded and witnessed by companyman
10/28/2013 21:43		Pump Displacement	7	290	1298.0	rig mud @ 9.8 ppg w ith no preflush to surface
10/28/2013 22:26		Bump Plug	3		2389.0	
10/28/2013 22:30		Check Floats				floats held with 2 bbl back
10/28/2013 22:39		End Job				
10/28/2013 22:40		Pre-Rig Down Safety Meeting				
10/28/2013 22:45		Rig-Down Equipment				
10/28/2013 23:30		Return to Service Center from Job				

The Road to Excellence Starts with Safety

Sold To #: 301256	Ship To #: 3178050	Quote #:	Sales Order #: 900851146
Customer: ENSIGN UNITED STATES DRILLING		Customer Rep: Martinez, Mike	
Well Name: SRC Leffler		Well #: 14-26NHZ	API/UWI #: 05-123-37583
Field: EATON	City (SAP): EATON	County/Parish: Weld	State: Colorado
Lat: N 40.553 deg. OR N 40 deg. 33 min. 10.8 secs.		Long: W 104.751 deg. OR W -105 deg. 14 min. 56.4 secs.	
Contractor: Ensign		Rig/Platform Name/Num: Ensign 17	
Job Purpose: Cement Intermediate Casing			
Well Type: Development Well		Job Type: Cement Intermediate Casing	
Sales Person: PLIENESS, RYAN		Srvc Supervisor: BARRAS, JOSEPH	MBU ID Emp #: 405168

Job Personnel

HES Emp Name	Exp Hrs	Emp #	HES Emp Name	Exp Hrs	Emp #	HES Emp Name	Exp Hrs	Emp #
BANUELOS, GUADALUPE	0.0	372277	BARRAS, JOSEPH Corey	0.0	405168	BROOM, KENDALL L	0.0	524682
STIELER, KENT	0.0	554541						

Equipment

HES Unit #	Distance-1 way	HES Unit #	Distance-1 way	HES Unit #	Distance-1 way	HES Unit #	Distance-1 way
10824253C	50 mile	11518548	50 mile	11808819	50 mile	11923776C	50 mile
53301	50 mile						

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							
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Job

Job Times

Formation Name					Date	Time	Time Zone
Formation Depth (MD)	Top		Bottom		Called Out	28 - Oct - 2013	11:00 MST
Form Type	BHST				On Location	28 - Oct - 2013	15:00 MST
Job depth MD	7693. ft		Job Depth TVD	7330. ft	Job Started	28 - Oct - 2013	20:51 MST
Water Depth			Wk Ht Above Floor	4. ft	Job Completed	28 - Oct - 2013	22:39 MST
Perforation Depth (MD)	From		To		Departed Loc	28 - Oct - 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
Open Hole				8.75				571.	7693.	571.	7330.
7" INTERMEDIATE	Unknown		7.	6.276	26.		J-55	.	7693.	.	7330.
Surface Casing	Unknown		9.625	8.921	36.		J-55	.	571.		

Tools and Accessories

Type	Size	Qty	Make	Depth	Type	Size	Qty	Make	Depth	Type	Size	Qty	Make
Guide Shoe					Packer					Top Plug			
Float Shoe					Bridge Plug					Bottom Plug			
Float Collar					Retainer					SSR plug set			
Insert Float										Plug Container			
Stage Tool										Centralizers			

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 ft3/sk	Mix Fluid Gal/sk	Rate bbl/min	Total Mix Fluid Gal/sk	
1	Mud Flush				24.00	bbl	8.4			5.0		
	42 gal/bbl	MUD FLUSH III - SBM (528788)										
	3.5 lbm/bbl	MUD FLUSH III, 40 LB SACK (101633304)										
2	Fresh Water Spacer				20	bbl	8.33			4.0		
3	Lead Cement	EXTENDACEM (TM) SYSTEM (452981)			328.0	sacks	12.3	2.31	12.99	7.5	12.99	
	12.99 Gal	FRESH WATER										
4	Tail Cement	FRACCEM (TM) SYSTEM (452963)			193.0	sacks	13.5	1.74	8.3	5.0	8.3	
	8.3 Gal	FRESH WATER										
5	Displacement					bbl						
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							

