

**ENSIGN UNITED STATES DRILLING EBUSI
PO BOX 17805 - DO NOT MAIL
DENVER, Colorado**

SRC Leffler 23-26NHZ

Ensign 17

Post Job Summary **Cement Surface Casing**

Date Prepared: 1/14/2014
Version: 1

Service Supervisor: MCBRIDE, NATHAN

Submitted by: TRIER, DEREK

HALLIBURTON

HALLIBURTON

Wellbore Geometry

Job Tubulars					MD	
Type	Description	Size in	ID in	Wt lbm/ft	Top ft	Bottom ft
Open Hole Section	Open Hole		13.500		0.00	550.00
Casing	Surface Casing	9.63	8.921	36.00	0.00	550.00

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	Cement Slurry	SwiftCem B2	13.40	4.00	185.0 sacks	185.0 sacks
1	3	Spacer	Displacement	0.00	4.00	41.3 bbl	41.3 bbl
1	4	Cement Slurry	Top Out Cement	15.80	-	185.0 sacks	185.0 sacks

HALLIBURTON

Service Supervisor Reports

Job Log

Date/Time	Chart #	Activity Code	Pump Rate	Cum Vol	Pump		Pressure (psig)	Comments
09/06/2013 09:15		Arrive at Location from Service Center						All equipment and materials on location Rig Running Casing
09/06/2013 09:20		Assessment Of Location Safety Meeting						Hazard Hunt and review fluid location, wash up and truck layout
09/06/2013 09:45		Pre-Rig Up Safety Meeting						
09/06/2013 10:00		Rig-Up Equipment						
09/06/2013 10:30		Casing on Bottom						15ft off rig floor
09/06/2013 10:50		Circulate Well						
09/06/2013 11:00		Rig-Up Completed						
09/06/2013 12:00		Pre-Job Safety Meeting						
09/06/2013 12:20		Start Job						
09/06/2013 12:20		Pump Water	2	2			40.0	Fill Lines
09/06/2013 12:23		Test Lines					3280.0	
09/06/2013 12:28		Pump Spacer	4	30			106.0	Fresh Water
09/06/2013 12:36		Pump Lead Cement	4	59			170.0	185sks @ 13.4ppg, 1.79yield, 9.51gal/sk
09/06/2013 12:58		Drop Top Plug						
09/06/2013 12:59		Pump Displacement	4	41.3			250.0	Fresh Water
09/06/2013 13:10		Cement Returns to Surface						30bbbs Displaced 11bbbs to Surface
09/06/2013 13:19		Bump Plug						500psi Over 1050
09/06/2013 13:26		Check Floats						Floats Good
09/06/2013 13:30		End Job						Thanks McBride and Crew

The Road to Excellence Starts with Safety

Sold To #: 301256	Ship To #: 3098829	Quote #:	Sales Order #: 900726840
Customer: ENSIGN UNITED STATES DRILLING EBUSI		Customer Rep: Martinez, Mike	
Well Name: SRC Leffler		Well #: 23-26NHZ	API/UWI #:
Field: EATON	City (SAP): AULT	County/Parish: Weld	State: Colorado
Contractor: Ensign		Rig/Platform Name/Num: Ensign 17	
Job Purpose: Cement Surface Casing			
Well Type: Development Well		Job Type: Cement Surface Casing	
Sales Person: FLING, MATTHEW	Srvc Supervisor: MCBRIDE, NATHAN		MBU ID Emp #: 313810

Job Personnel

HES Emp Name	Exp Hrs	Emp #	HES Emp Name	Exp Hrs	Emp #	HES Emp Name	Exp Hrs	Emp #
CHISLUM, DENNIS	4.5	512130	MARKOVICH, STEVEN Michael	4.5	502964	MCBRIDE, NATHAN Charles	4.5	313810

Equipment

HES Unit #	Distance-1 way	HES Unit #	Distance-1 way	HES Unit #	Distance-1 way	HES Unit #	Distance-1 way
10972458	60 mile	11019275	60 mile	11362287C	60 mile		

Job

Formation Name	Formation Depth (MD)	Top	Bottom	Form Type	Job depth MD	Job Depth TVD	Water Depth	Perforation Depth (MD)	From	To
				BHST	550. ft	550. ft				

Job Times

Date	Time	Time Zone
06 - Sep - 2013	04:30	MST
06 - Sep - 2013	09:12	MST
06 - Sep - 2013	12:20	MST
06 - Sep - 2013	13:30	MST
06 - Sep - 2013	14:30	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				13.5				.	550.		
Surface Casing	Unknown		9.625	8.921	36.		J-55	.	550.		

Sales/Rental/3rd Party (HES)

Description	Qty	Qty uom	Depth	Supplier
CENTRALIZER-9-5/8"-CSG-12 1/4"-HINGED	5	EA		
CLR,FLT,9-5/8 8RD 29.3-40PPF,2-3/4	1	EA		
SHOE,GID,9-5/8 8RD	1	EA		
KIT,HALL WELD-A	1	EA		
COLLAR-STOP-9 5/8"-FRICTION-HINGED	1	EA		
PLUG,CMTG,TOP,9 5/8,HWE,8.16 MIN/9.06 MA	1	EA		
MILEAGE FOR CEMENTING CREW,ZI	60	MI		

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	Fresh Water Spacer		30.00	bbl	8.33			4.0	
2	SwiftCem B2	SWIFTCM (TM) SYSTEM (452990)	185.0	sacks	13.4	1.79	9.51	4.0	9.51
	0.25 lbm	POLY-E-FLAKE (101216940)							
	9.51 Gal	FRESH WATER							
3	Displacement		41.3	bbl	8.33			4.0	
4	Top Out Cement	HALCEM (TM) SYSTEM (452986)	185.0	sacks	15.8	1.15	4.99	-	4.99
	4.989 Gal	FRESH WATER							
Calculated Values		Pressures		Volumes					
Displacement	41.3	Shut In: Instant		Lost Returns		Cement Slurry		Pad	
Top Of Cement		5 Min		Cement Returns	11	Actual Displacement	41.3	Treatment	
Frac Gradient		15 Min		Spacers	30	Load and Breakdown		Total Job	
Rates									
Circulating		Mixing		Displacement		Avg. Job			
Cement Left In Pipe	Amount	0 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					

