



HALLIBURTON

# Cementing Job Summary

The Road to Excellence Starts with Safety

Sold To #: 305021	Ship To #: 3208254	Quote #:	Sales Order #: 900940575
Customer: SANDRIDGE ENERGY INC EBUSINESS		Customer Rep:	
Well Name: JOSEPH 3405	Well #: 1-1H	API/UWI #:	
Field:	City (SAP): BLUFF CITY	County/Parish: Harper	State: Kansas
Contractor: UNIT	Rig/Platform Name/Num: 310		
Job Purpose: Cement Surface Casing			
Well Type: Development Well		Job Type: Cement Surface Casing	
Sales Person: FRENCH, JEREMY		Srvc Supervisor: OLSON, ERIC	MBU ID Emp #: 455339

**Job Personnel**

HES Emp Name	Exp Hrs	Emp #	HES Emp Name	Exp Hrs	Emp #	HES Emp Name	Exp Hrs	Emp #
FRY, DALE Edward	6	455904	OLSON, ERIC Eugene	6	455339	STOOPS, LEVI Keith	6	523378

**Equipment**

HES Unit #	Distance-1 way	HES Unit #	Distance-1 way	HES Unit #	Distance-1 way	HES Unit #	Distance-1 way
10560510	100 mile	10624564C	100 mile	10804555	100 mile	10866495	100 mile
12180360	100 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

**Job**

**Job Times**

Formation Name	Date	Time	Time Zone
Formation Depth (MD) Top	Called Out	02 - Dec - 2013	12:00 CST
Bottom	On Location	02 - Dec - 2013	16:00 CST
Form Type	Job Started	02 - Dec - 2013	20:49 CST
Job depth MD 550. ft	Job Completed	02 - Dec - 2013	22:25 CST
Water Depth	Departed Loc	02 - Dec - 2013	23:30 CST
Perforation Depth (MD) From			
To			

**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
12.25" Open Hole				12.25				80.	440.		
9.625" Surface Casing	Unknown		9.625	8.921	36.	LTC	J-55		550.		
Preset Conductor	Unknown		20.	19.124	94.				80.		

**Tools and Accessories**

Type	Size	Qty	Make	Depth	Type	Size	Qty	Make	Depth	Type	Size	Qty	Make
Guide Shoe					Packer					Top Plug	9.625	1	wiper
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 ft <sup>3</sup> /sk	Mix Fluid Gal/sk	Rate bbl/min	Total Mix Fluid Gal/sk	

Stage/Plug #: 1

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Stage/Plug #: 1									
Fluid #	Stage Type	Fluid Name	Qty	Qty uom	Mixing Density lbm/gal	Yield ft <sup>3</sup> /sk	Mix Fluid Gal/sk	Rate bbl/min	Total Mix Fluid Gal/sk
1	Fresh Water		10.00	bbbl	8.33	.0	.0	4.0	
2	LEAD CEMENT	EXTENDACEM (TM) SYSTEM (452981)	190.0	sacks	12.4	2.12	11.68	4.0	11.68
	3 %	CALCIUM CHLORIDE, PELLET, 50 LB (101509387)							
	0.25 lbm	POLY-E-FLAKE (101216940)							
	11.681 Gal	FRESH WATER							
3	TAIL CEMENT	SWIFTCEM (TM) SYSTEM (452990)	150.0	sacks	15.6	1.2	5.32	4.0	5.32
	2 %	CALCIUM CHLORIDE, PELLET, 50 LB (101509387)							
	0.125 lbm	POLY-E-FLAKE (101216940)							
	5.319 Gal	FRESH WATER							
4	Displacement		37.00	bbbl	8.33	.0	.0	4.0	
Calculated Values		Pressures		Volumes					
Displacement	37	Shut In: Instant		Lost Returns	no	Cement Slurry	104	Pad	
Top Of Cement	0ft.	5 Min		Cement Returns	37	Actual Displacement	37	Treatment	
Frac Gradient		15 Min		Spacers	10	Load and Breakdown		Total Job	151
Rates									
Circulating		Mixing		Displacement	37	Avg. Job			
Cement Left In Pipe	Amount	46.03 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					

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Field:	City (SAP): BLUFF CITY	County/Parish: Harper	State: Kansas
Legal Description:			
Lat:		Long:	
Contractor: UNIT		Rig/Platform Name/Num: 310	
Job Purpose: Cement Surface Casing			Ticket Amount:
Well Type: Development Well		Job Type: Cement Surface Casing	
Sales Person: FRENCH, JEREMY		Srvc Supervisor: OLSON, ERIC	MBU ID Emp #: 455339

Activity Description	Date/Time	Cht #	Rate bbl/min	Volume bbl		Pressure psig		Comments
				Stage	Total	Tubing	Casing	
Call Out	12/02/2013 12:00							Requested on location at 18:00 Dec 02, 2013.
Comment	12/02/2013 12:30							Load equipment for job
Pre-Convoy Safety Meeting	12/02/2013 12:45							Discussed driving hazards, directions to site and fit for duty requirements.
Crew Leave Yard	12/02/2013 13:00							
Arrive At Loc	12/02/2013 16:00							Requested on location at 18:00 Dec 02, 2013.
Comment	12/02/2013 16:01							Customer reached TD when HES arrived onto location.
Comment	12/02/2013 16:05							Checked in received required job information.
Comment	12/02/2013 16:10							Verified casing size and type, Performed water test, mix water passed all chemical tests.
Pre-Rig Up Safety Meeting	12/02/2013 19:50							Discussed pinch point hazards.
Rig-Up Equipment	12/02/2013 20:00							No misses were reported.
Pre-Job Safety Meeting	12/02/2013 20:30							Verified job calculations and job procedures also discussed possible job hazards.
Pressure Test	12/02/2013 20:49							Tested lines to 1500psi.
Pump Water	12/02/2013 21:04		4	10	10		88.0	Used freshwater with no additives.
Pump Lead Cement	12/02/2013 21:06		4	72	82		121.0	Lead cement scaled at 12.4ppg.

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SUMMIT Version: 7.3.0106

Monday, December 02, 2013 10:55:00

Activity Description	Date/Time	Cht #	Rate bbl/min	Volume bbl		Pressure psig		Comments
				Stage	Total	Tubing	Casing	
Pump Tail Cement	12/02/2013 21:42		4	32	114		40.0	Tail cement scaled at 15.6ppg.
Returns To Surface	12/02/2013 22:00							Water returns to surface with a total of 10bbbls.
Returns To Surface	12/02/2013 22:02							Cement returns to surface with a total of 37bbbls.
Shutdown	12/02/2013 22:03							
Drop Top Plug	12/02/2013 22:05							Plug left head.
Pump Displacement	12/02/2013 22:05		4	37	151		180.0	Used freshwater with no additives.
Bump Plug	12/02/2013 22:23						750.0	Bumped plug at 750psi.
Shutdown	12/02/2013 22:23							
Check Floats	12/02/2013 22:25							Floats held received .75bbbls back.
Pre-Rig Down Safety Meeting	12/02/2013 22:30							Discussed pinch point hazards.
Rig-Down Equipment	12/02/2013 22:40							No near misses were reported.
Pre-Convoy Safety Meeting	12/02/2013 23:15							Discussed driving hazards and fit for duty requirements.
Crew Leave Location	12/02/2013 23:30							