

The Road to Excellence Starts with Safety

Sold To #: 345242	Ship To #: 3277920	Quote #:	Sales Order #: 901019318
Customer: NOBLE ENERGY INC E-BUSINESS		Customer Rep: Swift, Carl	
Well Name: Lindsey	Well #: C 33-16	API/UWI #:	
Field:	City (SAP): KERSEY	County/Parish: Weld	State: Colorado
Contractor: WORKOVER		Rig/Platform Name/Num: WORKOVER WORKOVER	
Job Purpose: Recement Service			
Well Type: Development Well		Job Type: Recement Service	
Sales Person: FINK, JOHN		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	4.5	372277	BARRAS, JOSEPH Corey	4.5	405168	HARRAH, THADDEUS Gregory	4.5	552592
MILLER, GEOFFREY Alan	4.5	460232	SCILEPPI, JOSEPH D	4.5	555492			

**Equipment**

HES Unit #	Distance-1 way	HES Unit #	Distance-1 way	HES Unit #	Distance-1 way	HES Unit #	Distance-1 way
10867419C	37 mile	11518548	37 mile	11526488	37 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	Formation Depth (MD) Top	Bottom	Called Out	Date	Time	Time Zone
Form Type	BHST		On Location	07 - Jan - 2014	09:30	MST
Job depth MD	4600. ft	Job Depth TVD	Job Started	07 - Jan - 2014	11:49	MST
Water Depth		Wk Ht Above Floor	Job Completed	07 - Jan - 2014	15:10	MST
Perforation Depth (MD) From		To	Departed Loc	07 - Jan - 2014	16:15	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

**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

**Stage/Plug #: 1**

Fluid #	Stage Type	Fluid Name	Qty	Qty uom	Mixing Density uom	Yield uom	Mix Fluid uom	Rate uom	Total Mix Fluid uom
1	Fresh Water			bbl	8.34	1.0	1.0	2.0	

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
2	13.5# FracCem	FRACCEM (TM) SYSTEM (452963)	250.0	sacks	13.5	1.43	6.82		6.82
	6.82 Gal	FRESH WATER							
3	15.8# Neat G	HALCEM (TM) SYSTEM (452986)	300	sacks	15.8	1.15	5.0		5.0
	5 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	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					

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Field:	City (SAP): KERSEY	County/Parish: Weld	State: Colorado
Legal Description:			
Lat:		Long:	
Contractor: WORKOVER		Rig/Platform Name/Num: WORKOVER WORKOVER	
Job Purpose: Recement Service		Ticket Amount:	
Well Type: Development Well		Job Type: Recement Service	
Sales Person: FINK, JOHN		Srvc Supervisor: BARRAS, JOSEPH	MBU ID Emp #: 405168

Activity Description	Date/Time	Cht #	Rate bbl/min	Volume bbl		Pressure psig		Comments
				Stage	Total	Tubing	Casing	
Arrive at Location from Service Center	01/07/2014 09:30							
Rig-Up Equipment	01/07/2014 09:50							
Rig-Up Completed	01/07/2014 10:30							
Safety Meeting - Pre Job	01/07/2014 11:00							
Start Job	01/07/2014 11:49							
Test Lines	01/07/2014 11:52							test lines to 4500 psi no visible leaks
Circulate Well	01/07/2014 11:55		1.5	14			1094.0	rig water
Pump Cement	01/07/2014 12:20		1	64			1332.0	mixed with vac trk water @ 13.5 ppg 250 sks of fraccem 1.43 yield / 6.82gal/sk
Pump Displacement	01/07/2014 13:06		1	6			1602.0	water
Shutdown	01/07/2014 13:18							rig to pull 120 joints
Circulate Well	01/07/2014 13:57		1.5	9			168.0	
Pump Cement	01/07/2014 14:02		1.5	63			346.0	mixed with vac trk water @ 15.8 ppg 300 sks of halcem 1.15 yield /5.0 gal/sk
Pump Displacement	01/07/2014 15:07		1	1			245.0	water AND 2 BBL of cement to surface
Shutdown	01/07/2014 15:08							
End Job	01/07/2014 15:10							
Rig-Down Equipment	01/07/2014 15:15							

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SUMMIT Version: 7.3.0109

Tuesday, January 07, 2014 03:40:00

# HALLIBURTON

## Cementing Job Log

Activity Description	Date/Time	Cht #	Rate bbl/min	Volume bbl		Pressure psig		Comments
				Stage	Total	Tubing	Casing	
Return to Service Center from Job	01/07/2014 16:15							

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