

**HALLIBURTON**

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**NOBLE ENERGY INC E-BUSINESS**

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**Eisenach 12-1G6**

**Kansas**

**Recement Service**

**09-May-2013**

**Job Site Documents**

## The Road to Excellence Starts with Safety

Sold To #: 345242	Ship To #: 2997381	Quote #:	Sales Order #: 900427445
Customer: NOBLE ENERGY INC E-BUSINESS	Customer Rep: Hohnstein, Chris		
Well Name: Eisenach	Well #: 12-1G6	API/UWI #: 05-123-18595	
Field:	City (SAP): EATON	County/Parish:	State: Kansas
Lat: N 40.508 deg. OR N 40 deg. 30 min. 29.963 secs.	Long: W 104.718 deg. OR W -105 deg. 16 min. 54.44 secs.		
Contractor: Noble	Rig/Platform Name/Num: Workover		
Job Purpose: Recement Service			
Well Type: Development Well	Job Type: Recement Service		
Sales Person: FLING, MATTHEW	Srvc Supervisor: VIGIL, NICHOLAS	MBU ID Emp #: 443481	

## Job Personnel

HES Emp Name	Exp Hrs	Emp #	HES Emp Name	Exp Hrs	Emp #	HES Emp Name	Exp Hrs	Emp #
OTERI, VAUGHN Steeves	3.5	443828	ROMERO, JOSEPH M	3.5	512137	VIGIL, NICHOLAS Joseph	3.5	443481

## Equipment

HES Unit #	Distance-1 way	HES Unit #	Distance-1 way	HES Unit #	Distance-1 way	HES Unit #	Distance-1 way
10857080C	30 mile	11398490	30 mile	11633846C	30 mile	12010168	30 mile

## Job Hours

Date	On Location Hours	Operating Hours	Date	On Location Hours	Operating Hours	Date	On Location Hours	Operating Hours
5/9/2013	3.5	0.5						

TOTAL Total is the sum of each column separately

## Job

Formation Name	Top	Bottom	Called Out	Date	Time	Time Zone
Formation Depth (MD)			On Location	09 - May - 2013	04:00	MST
Form Type		BHST	Job Started	09 - May - 2013	10:01	MST
Job depth MD	831. ft	Job Depth TVD	Job Completed	09 - May - 2013	10:25	MST
Water Depth		Wk Ht Above Floor	Departed Loc	09 - May - 2013	11:45	MST
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
Surface Casing	Unknown		7.	6.366	23.		K-55	.	394.		
1 1/4" Tubing	Unknown		1.25	.824	2.4			.	600.		
Production Casing	Unknown		2.875	2.441	6.4			.	7324.		

## 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 ft <sup>3</sup> /sk	Mix Fluid Gal/sk	Rate bbl/min	Total Mix Fluid Gal/sk
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Stage/Plug #: 1

# HALLIBURTON

## Cementing Job Summary

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	15.8# Cement	HALCEM (TM) SYSTEM (452986)			162.0	sacks	15.8	1.15	5.0		5.0																				
5 Gal		FRESH WATER																													
Calculated Values			Pressures			Volumes																									
Displacement				Shut In: Instant				Lost Returns		no	Cement Slurry				Pad																
Top Of Cement		Surface		5 Min				Cement Returns		8 bbl	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																					