

**HALLIBURTON**

---

## **NOBLE ENERGY INC E-BUSINESS**

---

**Haller 44-21  
Wattenberg  
Weld County , Colorado**

**Recement Service  
21-Mar-2013**

**Job Site Documents**

## The Road to Excellence Starts with Safety

Sold To #: 345242	Ship To #: 2451856	Quote #:	Sales Order #: 900304039
Customer: NOBLE ENERGY INC E-BUSINESS	Customer Rep: Zwaggstra, Eric		
Well Name: Haller	Well #: 44-21	API/UWI #: 05-123-21253	
Field: Wattenberg	City (SAP): UNKNOWN	County/Parish: Weld	State: Colorado
Lat: N 40.118 deg. OR N 40 deg. 7 min. 5.117 secs.	Long: W 104.661 deg. OR W -105 deg. 20 min. 19.788 secs.		
Contractor: Workover	Rig/Platform Name/Num: Workover		
Job Purpose: Recement Service			
Well Type: Development Well	Job Type: Recement Service		
Sales Person: FLING, MATTHEW	Srv 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	2	443828	REED, FRED Marlon	2	504496	ROMERO, JOSEPH M	2	512137
VIGIL, NICHOLAS Joseph	2	443481						

## Equipment

HES Unit #	Distance-1 way	HES Unit #	Distance-1 way	HES Unit #	Distance-1 way	HES Unit #	Distance-1 way
10982754C	16 mile	11398490	16 mile	11527037	16 mile	12010168	16 mile
53301	16 mile						

## Job Hours

Date	On Location Hours	Operating Hours	Date	On Location Hours	Operating Hours	Date	On Location Hours	Operating Hours
3/21/2013	2	1						

TOTAL

Total is the sum of each column separately

Job				Job Times			
Formation Name				Date	Time	Time Zone	
Formation Depth (MD) Top		Bottom		Called Out	21 - Mar - 2013	05:00	MST
Form Type		BHST		On Location	21 - Mar - 2013	09:45	MST
Job depth MD	825. ft	Job Depth TVD	825. ft	Job Started	21 - Mar - 2013	10:35	MST
Water Depth		Wk Ht Above Floor		Job Completed	21 - Mar - 2013	11:23	MST
Perforation Depth (MD) From		To		Departed Loc	21 - Mar - 2013	12:00	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
12." Open Hole				12.				822.	1026.		
3 1/2" Production Casing	Unknown		4.5	4.	11.6			.	825.		825.
Surface Casing	Used		8.625	8.097	24.		J-55	.	822.	.	822.
1 1/4"	Unknown		1.25	.	4.7		K-55	.	825.		

## 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



**HALLIBURTON****Cementing Job Summary**

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)	171.0	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					