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# **NOBLE ENERGY INC E-BUSINESS**

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**Trebor B11-20  
Wattenberg  
Weld County , Colorado**

**Recement Service**

**Job Site Documents**

## The Road to Excellence Starts with Safety

Sold To #: 345242	Ship To #: 3096811	Quote #:	Sales Order #: 900690680
Customer: NOBLE ENERGY INC E-BUSINESS	Customer Rep: Beam, Ryan		
Well Name: Trebor	Well #: B11-20	API/UWI #: 05-123-30731	
Field: Wattenberg	City (SAP): GREELEY	County/Parish: Weld	State: Colorado
Lat: N 40.414 deg. OR N 40 deg. 24 min. 51.336 secs.	Long: W 104.522 deg. OR W -105 deg. 28 min. 41.556 secs.		

Job Purpose: Recement Service

Well Type: Development Well

Job Type: Recement Service

Sales Person: PLIENESS, RYAN

Srcv Supervisor: BIRCHELL, DEVIN

MBU ID Emp #: 466993

## Job Personnel

HES Emp Name	Exp Hrs	Emp #	HES Emp Name	Exp Hrs	Emp #	HES Emp Name	Exp Hrs	Emp #
BIRCHELL, DEVIN Ray	4	466993	DEY, JERRY A	4	505015	LANGE, TIMOTHY Paul	4	520811
MILLER, GEOFFREY Alan	4	460232						

## Equipment

HES Unit #	Distance-1 way	HES Unit #	Distance-1 way	HES Unit #	Distance-1 way	HES Unit #	Distance-1 way
11036298	40 mile	11410470C	40 mile	11562562	40 mile	11633848	40 mile
12010171	40 mile						

## Job Hours

Date	On Location Hours	Operating Hours	Date	On Location Hours	Operating Hours	Date	On Location Hours	Operating Hours
08-26-13	4	2						

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			
Form Type	BHST		Job Started			
Job depth MD	1750. ft	Job Depth TVD	Job Completed			
Water Depth		Wk Ht Above Floor	Departed Loc			
Perforation Depth (MD)	From	To				

## Job Times

## 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
4 1/2" Production Casing	Unknown		4.5	3.826	15.1	BTC	J-55	.	1750.		
1 1/4" CSI Tubing Drill Pipe	Unknown		1.25	.671	3.02	8 RD	P-110	.	1750.	.	.

## 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										
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 w/HR-5	HALCEM (TM) SYSTEM (452986)	498	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						