

HALLIBURTON

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## NOBLE ENERGY INC E-BUSINESS

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Watson E 28-7  
Wattenberg  
Weld County , Colorado

### Recement Service

27-Nov-2012

### Job Site Documents

The Road to Excellence Starts with Safety

Sold To #: 345242	Ship To #: 2966143	Quote #:	Sales Order #: 900031902
Customer: NOBLE ENERGY INC E-BUSINESS		Customer Rep: Noble Rep, Ryan	
Well Name: Watson	Well #: E 28-7	API/UWI #: 05-123-16710	
Field: Wattenberg	City (SAP): GREELEY	County/Parish: Weld	State: Colorado
Lat: N 40.459 deg. OR N 40 deg. 27 min. 33.314 secs.		Long: W 104.666 deg. OR W -105 deg. 20 min. 2.551 secs.	
Contractor: Leed	Rig/Platform Name/Num:		
Job Purpose: Recement Service			
Well Type: Development Well		Job Type: Recement Service	
Sales Person: AARON, WESLEY		Srv Supervisor: BULINSKI, MATTHEW	MBU ID Emp #: 483865

## Job Personnel

HES Emp Name	Exp Hrs	Emp #	HES Emp Name	Exp Hrs	Emp #	HES Emp Name	Exp Hrs	Emp #
BROOM, KENDALL L	0.0	524682	BULINSKI, MATTHEW J	0.0	483865	IPSON, TIMOTHY J	0.0	485018

## Equipment

HES Unit #	Distance-1 way	HES Unit #	Distance-1 way	HES Unit #	Distance-1 way	HES Unit #	Distance-1 way
11398490	25 mile	11605598	25 mile	11746359	25 mile	NA	25 mile

## Job Hours

Date	On Location Hours	Operating Hours	Date	On Location Hours	Operating Hours	Date	On Location Hours	Operating Hours
11-27-12	2	1						

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	27 - Nov - 2012	05:00	MST
Job depth MD	500. ft	Job Depth TVD	Job Started	27 - Nov - 2012	08:30	MST
Water Depth		Wk Ht Above Floor	Job Completed	27 - Nov - 2012	09:09	MST
Perforation Depth (MD) From		To	Job Departed Loc	27 - Nov - 2012	09:43	MST
				27 - Nov - 2012	10:30	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
Surface Casing	Used		8.625	8.097	24.		J-55		325.		325.
1 1/4" tubing	Used		1.25	.671	3.02		P-105		532.		532.

## 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	CMT - PREMIUM - CLASS G, 94 LB SK (100003685)	300.0	sacks	15.8	1.15	4.99		4.99
	94 lbm	CMT - PREMIUM - CLASS G REG OR TYPE V, BULK (100003685)							
	4.989 Gal	FRESH WATER							
Calculated Values		Pressures		Volumes					
Displacement	1	Shut In: Instant		Lost Returns	0	Cement Slurry	40	Pad	
Top Of Cement		5 Min		Cement Returns	8	Actual Displacement	1	Treatment	
Frac Gradient		15 Min		Spacers	5	Load and Breakdown		Total Job	46
Rates									
Circulating	1.5	Mixing	1.5	Displacement	1.5	Avg. Job	1.5		
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					