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# NOBLE ENERGY INC E-BUSINESS

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Hungenberg Watson E 21-13  
WATTENBERG  
Weld County , Colorado

**Recement Service**  
21-Nov-2012

**Job Site Documents**

*The Road to Excellence Starts with Safety*

Sold To #: 345242	Ship To #: 2965215	Quote #:	Sales Order #: 900019702
Customer: NOBLE ENERGY INC E-BUSINESS		Customer Rep: Swift, Carl	
Well Name: Hungenberg Watson	Well #: E 21-13	API/UWI #: 05-123-18709	
Field: WATTENBERG	City (SAP): GREELEY	County/Parish: Weld	State: Colorado
Lat: N 40.467 deg. OR N 40 deg. 27 min. 59.666 secs.		Long: W 104.676 deg. OR W -105 deg. 19 min. 26.544 secs.	
Contractor: Leed	Rig/Platform Name/Num: Leed 715		
Job Purpose: Recement Service			
Well Type: Development Well		Job Type: Recement Service	
Sales Person: AARON, WESLEY		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 #
CHAVEZ, JEROME Christophe	2.5	458298	OTERI, VAUGHN Steeves	2.5	443828	VIGIL, NICHOLAS Joseph	2.5	443481

**Equipment**

HES Unit #	Distance-1 way	HES Unit #	Distance-1 way	HES Unit #	Distance-1 way	HES Unit #	Distance-1 way
11398490	50 mile	11764052	50 mile	11764739	50 mile	12010168	50 mile

**Job Hours**

Date	On Location Hours	Operating Hours	Date	On Location Hours	Operating Hours	Date	On Location Hours	Operating Hours
11/21/2012	2.5	1						
<b>TOTAL</b>			<i>Total is the sum of each column separately</i>					

**Job**

**Job Times**

Formation Name	Formation Depth (MD) Top	Bottom	Called Out	Date	Time	Time Zone
Form Type	BHST		On Location	21 - Nov - 2012	07:45	MST
Job depth MD	4985. ft	Job Depth TVD	Job Started	21 - Nov - 2012	00:00	MST
Water Depth		Wk Ht Above Floor	Job Completed	21 - Nov - 2012	00:00	MST
Perforation Depth (MD) From		To	Departed Loc	21 - Nov - 2012	00:00	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
3 1/2" Production	Unknown								550.		
Surface Casing	Used		8.625	8.097	24.		J-55		351.		351.
1 1/4" tubing	Used		1.25	.671	3.02		P-105		550.		550.

**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	
Stage/Plug #: 1										

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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)		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		Shut In: Instant		Lost Returns		Cement Slurry		Pad	
Top Of Cement	SURFACE	5 Min		Cement Returns	6 BBL	Actual Displacement		Treatment	
Frac Gradient		15 Min		Spacers		Load and Breakdown		Total Job	
Rates									
Circulating		Mixing		2	Displacement		Avg. Job		2
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					