

---

# **NOBLE ENERGY INC E-BUSINESS**

---

**Kugel W4-4  
Wattenberg  
Weld County , Colorado**

**Recement Service**  
**16-Oct-2012**

**Job Site Documents**

*The Road to Excellence Starts with Safety*

Sold To #: 345242	Ship To #: 2957833	Quote #:	Sales Order #: 9893406
Customer: NOBLE ENERGY INC E-BUSINESS	Customer Rep: Beam, Ryan		
Well Name: Kugel	Well #: W4-4	API/UWI #: 05-123-15373	
Field: Wattenberg	City (SAP): UNKNOWN	County/Parish: Weld	State: Colorado
Job Purpose: Recement Service			
Well Type: Development Well	Job Type: Recement Service		
Sales Person: FLING, MATTHEW	Srv Supervisor: NIELSON, BRANDON	MBU ID Emp #: 479703	

## Job Personnel

HES Emp Name	Exp Hrs	Emp #	HES Emp Name	Exp Hrs	Emp #	HES Emp Name	Exp Hrs	Emp #
BOURGEOIS, KEVIN Paul	3.5	459092	CHISLUM, DENNIS	3.5	512130	FINNEY, SAUN	3.5	525706
NIELSON, BRANDON K	3.5	479703						

## Equipment

HES Unit #	Distance-1 way	HES Unit #	Distance-1 way	HES Unit #	Distance-1 way	HES Unit #	Distance-1 way
10824253C	14 mile	10857012C	14 mile	11527037	14 mile		

## Job Hours

Date	On Location Hours	Operating Hours	Date	On Location Hours	Operating Hours	Date	On Location Hours	Operating Hours
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	16 - Oct - 2012	09:30	MST
Form Type	BHST			On Location	16 - Oct - 2012	10:30	MST
Job depth MD	850. ft			Job Started	16 - Oct - 2012	12:15	MST
Water Depth	Wk Ht Above Floor			Job Completed	16 - Oct - 2012	13:15	MST
Perforation Depth (MD)	From		To	Departed Loc	16 - Oct - 2012	14:00	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
9" Open Hole				9.				650.	4985.		
2 7/8" Production Casing	Unknown								7500.		
Surface Casing	Used		8.625	8.097	24.		J-55		560.		560.
1 1/4" tubing	Used		1.25	.671	3.02		P-105		659.		659.

## 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 ft3/sk	Mix Fluid Gal/sk	Rate bbl/min	Total Mix Fluid Gal/sk	

Stage/Plug #: 1



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	FracCem B2	FRACCEM (TM) SYSTEM (452963)		sacks	13.5	1.74	8.29		8.29
	8.289 Gal	FRESH WATER							
2	15.8# Cement	CMT - PREMIUM - CLASS G, 94 LB SK (100003685)	308	sacks	15.8	1.15	5.0		5.0
	94 lbm	CMT - PREMIUM - CLASS G REG OR TYPE V, BULK (100003685)							
	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					