

## The Road to Excellence Starts with Safety

Sold To #: 345242	Ship To #: 2954397	Quote #:	Sales Order #: 9851579
Customer: NOBLE ENERGY INC E-BUSINESS	Customer Rep:		
Well Name: Kugel	Well #: W4-3	API/UWI #:	
Field: Wattenberg	City (SAP): PLATTEVILLE	County/Parish: Weld	State: Colorado
Job Purpose: Recement Service			
Well Type: Development Well	Job Type: Recement Service		
Sales Person: FLING, MATTHEW	Srv Supervisor: WHEELER, JUSTIN	MBU ID Emp #:	196470

## Job Personnel

HES Emp Name	Exp Hrs	Emp #	HES Emp Name	Exp Hrs	Emp #	HES Emp Name	Exp Hrs	Emp #
BROOM, KENDALL L	6	524682	DODSON, RICHARD Bryan	6	518192	OTERI, VAUGHN Steeves	6	443828
ROMERO, JOSEPH M	6	512137	WHEELER, JUSTIN W	6	196470			

## Equipment

HES Unit #	Distance-1 way	HES Unit #	Distance-1 way	HES Unit #	Distance-1 way	HES Unit #	Distance-1 way
10867419C	15 mile	11398319	15 mile	11526488	15 mile	11605599	15 mile
11667703C	15 mile	11764739	15 mile				

## Job Hours

Date	On Location Hours	Operating Hours	Date	On Location Hours	Operating Hours	Date	On Location Hours	Operating Hours
9-28-12	6	3.5						
TOTAL			Total is the sum of each column separately					

## Job

Formation Name	Top	Bottom	Called Out	Date	Time	Time Zone
Formation Depth (MD)			28 - Sep - 2012	00:00	MST	
Form Type	BHST		28 - Sep - 2012	08:00	MST	
Job depth MD	4985. ft	Job Depth TVD	28 - Sep - 2012	09:59	MST	
Water Depth		Wk Ht Above Floor	28 - Sep - 2012	13:10	MST	
Perforation Depth (MD)	From	To	28 - Sep - 2012	14:00	MST	

## 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
9" Open Hole				9.				612.	5000.		
2 7/8" Production Casing	Unknown								7500.		
Surface Casing	Used		8.625	8.097	24.		J-55		612.		612.
1 1/4" tubing	Used		1.25	.671	3.02		P-105		5000.		5000.

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

1	FracCem B2	FRACCEM (TM) SYSTEM (452963)	230.0	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)	300	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							
<b>Calculated Values</b>		<b>Pressures</b>		<b>Volumes</b>					
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	
<b>Rates</b>									
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					