

**HALLIBURTON**

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**NOBLE ENERGY INC E-BUSINESS**

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Rodriguez 17-31  
Wattenberg  
Weld County , Colorado

**Recement Service**

23-Feb-2013

**Job Site Documents**

## The Road to Excellence Starts with Safety

Sold To #: 345242	Ship To #: 2982772	Quote #:	Sales Order #: 900241112
Customer: NOBLE ENERGY INC E-BUSINESS	Customer Rep: Beam, Ryan		
Well Name: Rodriguez	Well #: 17-31	API/UWI #: 05-123-21621	
Field: Wattenberg	City (SAP): GREELEY	County/Parish: Weld	State: Colorado
Lat: N 40.484 deg. OR N 40 deg. 29 min. 0.83 secs.	Long: W 104.577 deg. OR W -105 deg. 25 min. 22.31 secs.		
Contractor: Noble	Rig/Platform Name/Num: Workover		
Job Purpose: Recement Service			
Well Type: Development Well	Job Type: Recement Service		
Sales Person: AARON, WESLEY	Srv Supervisor: MCBRIDE, NATHAN	MBU ID Emp #: 313810	

## Job Personnel

HES Emp Name	Exp Hrs	Emp #	HES Emp Name	Exp Hrs	Emp #	HES Emp Name	Exp Hrs	Emp #
BOURGEOIS, KEVIN Paul	0.0	459092	MARKOVICH, STEVEN Michael	0.0	502964	MCBRIDE, NATHAN Charles	0.0	313810
SANSONI, NICHOLAS Sterling J	0.0	502962						

## Equipment

HES Unit #	Distance-1 way	HES Unit #	Distance-1 way	HES Unit #	Distance-1 way	HES Unit #	Distance-1 way
10824253C	42 mile	11019824	42 mile	11562570C	42 mile	12010170	42 mile
5707C	42 mile						

## Job Hours

Date	On Location Hours	Operating Hours	Date	On Location Hours	Operating Hours	Date	On Location Hours	Operating Hours
2-23-13	5							

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	23 - Feb - 2013	03:00 MST
Form Type		BHST		On Location	23 - Feb - 2013	07:00 MST
Job depth MD	720. ft	Job Depth TVD	720. ft	Job Started	23 - Feb - 2013	09:26 MST
Water Depth		Wk Ht Above Floor	5. ft	Job Completed	23 - Feb - 2013	10:25 MST
Perforation Depth (MD)	From	To		Departed Loc	23 - Feb - 2013	12:00 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
13" Open Hole				13.				360.	720.		
4 1/2" Production Casing	Unknown		4.5	4.	11.6			.	7200.		
Surface Casing	Used		8.625	8.097	24.		J-55	.	360.	.	
1 1/4" tubing	Used		1.25	.671	3.02		P-105	.	720.	.	

## 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		

## Fluid Data

Stage/Plug #: 1

# HALLIBURTON

## Cementing Job Summary

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	HALCEM (TM) SYSTEM (452986)	300.0	sacks	15.8	1.15	5.0		5.0
5 Gal		FRESH WATER							
Calculated Values		Pressures		Volumes					
Displacement		Shut In: Instant		Lost Returns	No	Cement Slurry	61.5	Pad	
Top Of Cement	Surface	5 Min		Cement Returns	11	Actual Displacement	1.5	Treatment	
Frac Gradient		15 Min		Spacers	10	Load and Breakdown		Total Job	73
Rates									
Circulating	2	Mixing	2	Displacement	2	Avg. Job	2		
Cement Left In Pipe	Amount	0 ft	Reason						
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					