

**HALLIBURTON**

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## **NOBLE ENERGY INC E-BUSINESS**

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**Gemini UPRR B31-13  
Wattenberg  
Weld County , Colorado**

**Recement Service**

**Job Site Documents**

## The Road to Excellence Starts with Safety

Sold To #: 345242	Ship To #: 2982482	Quote #:	Sales Order #: 900236686
Customer: NOBLE ENERGY INC E-BUSINESS	Customer Rep: Mathias, Tony		
Well Name: Gemini UPRR	Well #: B31-13	API/UWI #: 05-123-13714	
Field: Wattenberg	City (SAP): KERSEY	County/Parish: Weld	State: Colorado
Lat: N 40.35 deg. OR N 40 deg. 21 min. 1.21 secs.	Long: W 104.6 deg. OR W -105 deg. 24 min. 0.986 secs.		
Contractor: Workover	Rig/Platform Name/Num: Boulder Rig 5		
Job Purpose: Recement Service			
Well Type: Development Well	Job Type: Recement Service		
Sales Person: FLING, MATTHEW	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 #
DIRKS, RICHARD E	4.5	485940	MEADOWS, DANIEL Graham	4.5	500668	REED, FRED Marlon	4.5	504496
VIGIL, NICHOLAS Joseph	4.5	443481						

## Equipment

HES Unit #	Distance-1 way	HES Unit #	Distance-1 way	HES Unit #	Distance-1 way	HES Unit #	Distance-1 way
11338223	30 mile	11398490	30 mile	11562570C	30 mile	11764052	30 mile
12010168	30 mile	5707C	30 mile				

## Job Hours

Date	On Location Hours	Operating Hours	Date	On Location Hours	Operating Hours	Date	On Location Hours	Operating Hours
2/22/2013	4.5	2.8						
TOTAL			Total is the sum of each column separately					

## Job

Formation Name	Top	Bottom	Called Out	Date	Time	Time Zone
Formation Depth (MD)			On Location			
Form Type	BHST		Job Started			
Job depth MD	4750. ft	Job Depth TVD	Job Completed			
Water Depth		Wk Ht Above Floor	Departed Loc			
Perforation Depth (MD)	From	To				

## 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
12.25" Open Hole				9.				304.	500.		
8" Open Hole				8.				500.	7180.		
4 1/2" Production Casing	Unknown		4.5	4.	11.6				7180.		7180.
Surface Casing	Used		8.625	8.097	24.		J-55		304.		304.
1 1/4"	Unknown		1.25				K-55		4750.		

## 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

# 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)	350.0	sacks	15.8	1.15	5.0		5.0
	5 Gal	FRESH WATER							
2	13.5 FracCem	FRACCEM (TM) SYSTEM (452963)	200.0	sacks	13.5	1.48	7.07		7.07
	7.07 Gal	FRESH WATER							
<b>Calculated Values</b>		<b>Pressures</b>		<b>Volumes</b>					
Displacement		Shut In: Instant		Lost Returns	no	Cement Slurry		Pad	
Top Of Cement	surface	5 Min		Cement Returns	6.5 bbl	Actual Displacement		Treatment	
Frac Gradient		15 Min		Spacers		Load and Breakdown		Total Job	
<b>Rates</b>									
Circulating		Mixing	2	Displacement	22	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					