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**NOBLE ENERGY INC E-BUSINESS**

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**Lucci-BC B 01-08  
WATTENBERG  
Weld County , Colorado**

**Recement Service  
19-Apr-2013**

**Job Site Documents**

## The Road to Excellence Starts with Safety

Sold To #: 345242		Ship To #: 2993495		Quote #:		Sales Order #: 900375886	
Customer: NOBLE ENERGY INC E-BUSINESS				Customer Rep: Beam, Ryan			
Well Name: Lucci-BC B			Well #: 01-08		API/UWI #: 05-123-14283		
Field: WATTENBERG		City (SAP): KERSEY		County/Parish: Weld		State: Colorado	
Lat: N 40.43 deg. OR N 40 deg. 25 min. 48.99 secs.				Long: W 104.491 deg. OR W -105 deg. 30 min. 31.777 secs.			
Contractor: Workover			Rig/Platform Name/Num: Workover				
Job Purpose: Recement Service							
Well Type: Development Well				Job Type: Recement Service			
Sales Person: FLING, MATTHEW				Srv Supervisor: OZBUN, RYAN		MBU ID Emp #: 475709	

## Job Personnel

HES Emp Name	Exp Hrs	Emp #	HES Emp Name	Exp Hrs	Emp #	HES Emp Name	Exp Hrs	Emp #
DIRKS, RICHARD E	2.5	485940	MEADOWS, DANIEL Graham	2.5	500668	OZBUN, RYAN Jacob	2.5	475709

## Equipment

HES Unit #	Distance-1 way	HES Unit #	Distance-1 way	HES Unit #	Distance-1 way	HES Unit #	Distance-1 way
10248053C	40 mile	11362287C	40 mile	12010173	40 mile		

## Job Hours

Date	On Location Hours	Operating Hours	Date	On Location Hours	Operating Hours	Date	On Location Hours	Operating Hours
4-19-13	2.5	2.5						
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	19 - Apr - 2013	06:00 MST
Form Type		BHST		On Location	19 - Apr - 2013	09:00 MST
Job depth MD	436. ft	Job Depth TVD	436. ft	Job Started	19 - Apr - 2013	09:50 MST
Water Depth		Wk Ht Above Floor		Job Completed	19 - Apr - 2013	10:30 MST
Perforation Depth (MD)	From		To	Departed Loc	19 - Apr - 2013	11:30 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
12." Open Hole				12.				274.	436.	274.	436.
Surface Casing	Used		8.625	8.097	24.		J-55	.	274.	.	274.
1 1/4"	Unknown		1.25	.671	3.02		K-55	.	436.		
3 1/2" Production Casing	Unknown		3.5	3.068	7.7			.	4800.		4800.

## 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									
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)	210.0	sacks	15.8	1.15	5.0		5.0
5 Gal		FRESH WATER							
Calculated Values		Pressures		Volumes					
Displacement	1.5	Shut In: Instant		Lost Returns	0	Cement Slurry	43	Pad	
Top Of Cement	0	5 Min		Cement Returns	6	Actual Displacement	1.5	Treatment	
Frac Gradient		15 Min		Spacers	5	Load and Breakdown		Total Job	
Rates									
Circulating		Mixing	2	Displacement	2	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					



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Job Purpose: Recement Service			Ticket Amount:
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Activity Description	Date/Time	Cht #	Rate bbl/min	Volume bbl		Pressure psig		Comments
				Stage	Total	Tubing	Casing	
Start Job	04/19/2013 09:50							PERFORM WATER TEST ALL RESULTS NORMAL AND OKAY TO MIX WITH
Test Lines	04/19/2013 09:52							TEST LINES TO 3000 PSI CHECK FOR VISIBLE LEAKS AND PRESSURE LOSS ALL CHECKED OUT GOOD
Pump Spacer 1	04/19/2013 09:54		1	5		120.0		PUMP 5 BBL H2O TO BREAK CIRCULATION
Pump Cement	04/19/2013 10:06		2	43		575.0		PUMP 210 SKS OF HALCEM 15.8 PPG 1.15 YEILD 5 GAL/SK 43 BBL
Pump Displacement	04/19/2013 10:29		2	1.5		575.0		DISPLACE 1.5 BBL TO CLEAR LINES
End Job	04/19/2013 10:30							SHUTDOWN BLEED OFF ALL PRESSURE, HAVE SAFETY MEETING AND RIG DOWN