

**HALLIBURTON**

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**NOBLE ENERGY INC E-BUSINESS**

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Miller P27-4Ji  
WATTENBERG  
Weld County , Colorado

**Recement Service**

23-Aug-2012

**Job Site Documents**

# HALLIBURTON

# Cementing Job Summary

The Road to Excellence Starts with Safety

**Sold To #:** 345242      **Ship To #:** 2946893      **Quote #:**      **Sales Order #:** 9763689  
**Customer:** NOBLE ENERGY INC-E-BUSINESS      **Customer Rep:** Hohenstein, Chris  
**Well Name:** Miller      **Well #:** P27-4J1      **API/UWI #:** 05-123-20159  
**Field:** WATTENBERG      **City (SAP):** PLATTEVILLE      **County/Parish:** Weld      **State:** Colorado  
**Lat:** N 40.202 deg.      **OR N 40 deg. 12 min. 6.66 secs.**      **Long:** W 104.884 deg.      **OR W. -105 deg. 6 min. 56.484 secs.**  
**Job Purpose:** Recement Service  
**Well Type:** Development Well      **Job Type:** Recement Service  
**Sales Person:** AARON, WESLEY      **Srv Supervisor:** OZBUN, RYAN      **MBU ID Emp #:** 475709

Job Personnel					
HES Emp Name	Exp Hrs	Emp #	HES Emp Name	Exp Hrs	Emp #
DIRKS, RICHARD E	3.0	485940	HINKLE, BRADLEY Dean	3.0	512123
PETERSON, ERIC Eugene	3.0	213272	SANSONI, NICHOLAS Sterling J	3.0	502962

Equipment					
HES Unit #	Distance-1 way	HES Unit #	Distance-1 way	HES Unit #	Distance-1 way
10988836	15 mile	11036301	15 mile	11398490	15 mile
11605597	15 mile				

Job Hours					
Date	On Location Hours	Operating Hours	Date	On Location Hours	Operating Hours
8-23-12	3	3			
<b>TOTAL</b>			Total is the sum of each column separately		

Job Times					
Formation Name	Top	Bottom	Date	Time	Time Zone
Formation Depth (MD)			23 - Aug - 2012	06:00	MST
Form Type		BHST	23 - Aug - 2012	07:30	MST
Job depth MD	850. ft	Job Depth TVD	23 - Aug - 2012	08:51	MST
Water Depth		Wk Ht Above Floor	23 - Aug - 2012	09:45	MST
Perforation Depth (MD)	From	To	23 - Aug - 2012	10:30	MST

Well Data					
Description	New / Used	Max pressure psig	Size in	ID in	Weight lbm/ft
Surface Casing	Used		8.625	8.097	24.
1 1/4" tubing	Used		1.25	1.995	

Tools and Accessories					
Type	Size	Qty	Make	Depth	Type
Guide Shoe					Top Plug
Float Shoe					Bottom Plug
Float Collar					SSR plug set
Insert Float					Plug Container
Stage Tool					Centralizers

Miscellaneous Materials					
Gelling Agt	Conc	Conc	Conc	Acid Type	Qty
Treatment Fld				Sand Type	Size

Fluid Data					
Stage/Plug #:	1	Fluid Name	Qty	Qty uom	Mixing Density lbm/gal
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

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## Cementing Job Summary

Stage/Plug #: 1		Fluid Name		Qty	Qty uom	Mixing Density lbm/gal	Yield #3/sk	Mix Fluid Gall/sk	Rate bbl/min	Total Mix Fluid Gall/sk
Fluid #	Stage Type	HALCEM (TM) SYSTEM (452986)		225.0	sacks	15.8	1.15	4.99	2.0	4.99
4.989 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		Mixing		Displacement		Avg. Job				
Circulating		Amount	Reason	Shoe Joint						
Cement Left In Pipe		0 ft								
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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## Cementing Job Log

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Customer: NOBLE ENERGY INC E-BUSINESS	Customer Rep: Hohenstein, Chris		
Well Name: Miller	Well #: P27-4Ji	API/UWI #: 05-123-20159	State: Colorado
Field: WATTENBERG	City (SAP): PLATTEVILLE	County/Parish: Weld	
Legal Description:			
Lat: N 40.202 deg. OR N 40 deg. 12 min. 6.66 secs.	Long: W 104.884 deg. OR W -105 deg. 6 min. 56.484 secs.		
Contractor:	Rig/Platform Name/Num:	Ticket Amount:	
Job Purpose: Recement Service	Job Type: Recement Service		
Well Type: Development Well	Svc Supervisor: OZBUN, RYAN	MBU ID Emp #:	475709
Sales Person: AARON WESLEY			

Activity Description	Date/Time	Cnt #	Rate	Volume		Pressure		Comments
			bbl/min	Stage	Total	Tubing	Casing	
Start Job	08/23/2012 08:50							PERFORMED WATER TEST ALL RESULTS NORMAL AND OK TO MIX WITH
Test Lines	08/23/2012 08:52							PRESSURE TEST LINES TO 3000 PSI CHECK FOR VISIBLE LEAKS AND PRESSURE LOSS
Pump Cement	08/23/2012 09:04			1.8				PUMP 225 SKS 15.8 PREMIUM G CEMENT 1.15 YIELD 5.0 GAL/SK MIXED ON THE FLY WITH TESTED WATER
Pump Displacement	08/23/2012 09:39			1.5				PUMP .5 BBL FRESH WATER DISPLACEMENT AND SHUT DOWN
End Job	08/23/2012 09:39							END JOB

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Quote #:

Sales Order #:

9763689

SUMMIT Version: 7.3.0039

Thursday, August 23, 2012 10:17:00