
NOBLE ENERGY INC E-BUSINESS

**Bickling E 21-10
WATTENBERG
Weld County , Colorado**

Recement Service
16-Nov-2012

Job Site Documents

The Road to Excellence Starts with Safety

Sold To #: 345242	Ship To #: 2964208	Quote #:	Sales Order #: 900008387
Customer: NOBLE ENERGY INC E-BUSINESS	Customer Rep:		
Well Name: Bickling	Well #: E 21-10	API/UWI #: 05-123-18677-00	
Field: WATTENBERG	City (SAP): GREELEY	County/Parish: Weld	State: Colorado
Contractor: Leed	Rig/Platform Name/Num: Leed 715		
Job Purpose: Recement Service			
Well Type: Development Well	Job Type: Recement Service		
Sales Person: AARON, WESLEY	Srv Supervisor: CLEMONS, WILLIAM	MBU ID Emp #: 407973	

Job Personnel

HES Emp Name	Exp Hrs	Emp #	HES Emp Name	Exp Hrs	Emp #	HES Emp Name	Exp Hrs	Emp #
CLEMONS, WILLIAM Edward	4	407973	DIRKS, RICHARD E	4	485940	RICHEY, JESSICA L	4	525703

Equipment

HES Unit #	Distance-1 way	HES Unit #	Distance-1 way	HES Unit #	Distance-1 way	HES Unit #	Distance-1 way

Job Hours

Date	On Location Hours	Operating Hours	Date	On Location Hours	Operating Hours	Date	On Location Hours	Operating Hours
11/16/2012	4	2						
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	16 - Nov - 2012	03:00	MST
Form Type		BHST	Job Started	16 - Nov - 2012	07:00	MST
Job depth MD	505. ft	Job Depth TVD	Job Completed	16 - Nov - 2012	09:45	MST
Water Depth		Wk Ht Above Floor	Departed Loc	16 - Nov - 2012	10:30	MST
Perforation Depth (MD)	From	To			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
9" Open Hole				9.				371.	451.		
4 1/2" Production Casing	Unknown		4.5	4.	11.6			.	451.		451.
Surface Casing	Used		8.625	8.097	24.		J-55	.	352.	.	352.
1 1/4" tubing	Used		1.25	.671	3.02		P-105	.	500.	.	500.

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 ft3/sk	Mix Fluid Gal/sk	Rate bbl/min	Total Mix Fluid Gal/sk
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Stage/Plug #: 1

HALLIBURTON**Cementing Job Summary**

Stage/Plug #: 1									
Fluid #	Stage Type	Fluid Name	Qty	Qty uom	Mixing Density lbm/gal	Yield ft ³ /sk	Mix Fluid Gal/sk	Rate bbl/min	Total Mix Fluid Gal/sk
1	15.8# Cement	CMT - PREMIUM - CLASS G, 94 LB SK (100003685)	210.0	sacks	15.8	1.15	4.99		4.99
	94 lbm	CMT - PREMIUM - CLASS G REG OR TYPE V, BULK (100003685)							
	4.989 Gal	FRESH WATER							
Calculated Values		Pressures		Volumes					
Displacement	2	Shut In: Instant		Lost Returns		Cement Slurry	43	Pad	
Top Of Cement	SURFACE	5 Min		Cement Returns		Actual Displacement		Treatment	
Frac Gradient		15 Min		Spacers	4	Load and Breakdown		Total Job	49
Rates									
Circulating	2	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					