

HALLIBURTON

NOBLE ENERGY INC E-BUSINESS

Miller 24-1
WATTENBERG
Weld County , Colorado

Recement Service
30-Jan-2013

Job Site Documents

The Road to Excellence Starts with Safety

Sold To #: 345242		Ship To #: 2977747		Quote #:		Sales Order #: 900177958	
Customer: NOBLE ENERGY INC E-BUSINESS				Customer Rep: Burns, Pete			
Well Name: Miller			Well #: 24-1		API/UWI #: 05-123-14440		
Field: WATTENBERG		City (SAP): KERSEY		County/Parish: Weld		State: Colorado	
Lat: N 40.303 deg. OR N 40 deg. 18 min. 11.362 secs.				Long: W 104.608 deg. OR W -105 deg. 23 min. 29.717 secs.			
Contractor: Leed			Rig/Platform Name/Num:				
Job Purpose: Recement Service							
Well Type: Development Well			Job Type: Recement Service				
Sales Person: AARON, WESLEY			Srv Supervisor: SNYDER, JONATHAN				MBU ID Emp #: 435616

Job Personnel

HES Emp Name	Exp Hrs	Emp #	HES Emp Name	Exp Hrs	Emp #	HES Emp Name	Exp Hrs	Emp #
HALE, ROBERT E	3.0	470588	MAYFIELD, BYRON L	3.0	528751	SNYDER, JONATHAN Leroy	3.0	435616

Equipment

HES Unit #	Distance-1 way	HES Unit #	Distance-1 way	HES Unit #	Distance-1 way	HES Unit #	Distance-1 way
11341988C	30 mile	11518548	30 mile	11748359	30 mile	NA	30 mile

Job Hours

Date	On Location Hours	Operating Hours	Date	On Location Hours	Operating Hours	Date	On Location Hours	Operating Hours
1/30/2012	3	2						

TOTAL Total is the sum of each column separately

Job

Job					Job Times				
Formation Name						Date	Time	Time Zone	
Formation Depth (MD)	Top		Bottom		Called Out	30 - Jan - 2013	04:30	MST	
Form Type			BHST		On Location	30 - Jan - 2013	09:00	MST	
Job depth MD	628. ft		Job Depth TVD	628. ft		Job Started	30 - Jan - 2013	10:15	MST
Water Depth			Wk Ht Above Floor	4. ft		Job Completed	30 - Jan - 2013	11:04	MST
Perforation Depth (MD)	From		To		Departed Loc	30 - Jan - 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
12" Open Hole				12.					7180.		
Surface Casing	Used		8.625	8.097	24.		J-55		436.		436.
1 1/4" tubing	Used		1.25	.671	3.02		P-105		628.		628.

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

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

HALLIBURTON**Cementing Job Summary**

Stage/Plug #: 1									
1	FRESH WATER		3.00	bbl	.	.0	.0	.0	
2	15.8# Cement	SQUEEZECM (TM) SYSTEM (452971)	235.0	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		Cement Slurry	48	Pad	
Top Of Cement	0	5 Min		Cement Returns	6	Actual Displacement	1.5	Treatment	
Frac Gradient		15 Min		Spacers	3	Load and Breakdown		Total Job	
Rates									
Circulating	1.5	Mixing	.5	Displacement	1.5	Avg. Job	1.5		
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					