

HALLIBURTON

NOBLE ENERGY INC E-BUSINESS

**Watson E 28-2
WATTENBERG
Weld County , Colorado**

Recement Service

17-Nov-2012

Job Site Documents

The Road to Excellence Starts with Safety

Sold To #: 345242	Ship To #: 2964530	Quote #:	Sales Order #: 900011340
Customer: NOBLE ENERGY INC E-BUSINESS		Customer Rep: Zwaagstra, Erich	
Well Name: Watson E		Well #: 28-2	API/UWI #: 05-123-16653
Field: WATTENBERG	City (SAP): GREELEY	County/Parish: Weld	State: Colorado
Lat: N 40.463 deg. OR N 40 deg. 27 min. 46.454 secs.		Long: W 104.666 deg. OR W -105 deg. 20 min. 2.44 secs.	
Contractor: Workover		Rig/Platform Name/Num: Leed719	
Job Purpose: Recement Service			
Well Type: Development Well		Job Type: Recement Service	
Sales Person: AARON, WESLEY		Srvc Supervisor: LAVALLEY, LARRY	MBU ID Emp #: 419296

Job Personnel

HES Emp Name	Exp Hrs	Emp #	HES Emp Name	Exp Hrs	Emp #	HES Emp Name	Exp Hrs	Emp #
HALE, ROBERT E	1.5	470588	LAVALLEY, LARRY P	1.5	419296	MILLER, GEOFFREY Alan	1.5	460232
RICHEY, JESSICA L	1.5	525703						

Equipment

HES Unit #	Distance-1 way	HES Unit #	Distance-1 way	HES Unit #	Distance-1 way	HES Unit #	Distance-1 way
10977079	35 mile	10982754	35 mile	11518549	35 mile	11542778	35 mile

Job Hours

Date	On Location Hours	Operating Hours	Date	On Location Hours	Operating Hours	Date	On Location Hours	Operating Hours
11/17/12	2	1						

TOTAL Total is the sum of each column separately

Job

Job Times

Formation Name	Formation Depth (MD)	Top	Bottom	Form Type	Job depth MD	Job Depth TVD	Water Depth	Perforation Depth (MD)	From	To	Deparated Loc	Date	Time	Time Zone
				BHST	467. ft	467. ft	6. ft					17 - Nov - 2012	04:00	MST
												17 - Nov - 2012	11:00	MST
												17 - Nov - 2012	11:35	MST
												17 - Nov - 2012	12:10	MST
												17 - Nov - 2012	12:45	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
Surface Casing	Used		8.625	8.097	24.		J-55	.	325.	.	325.
1 1/4" tubing	Used		1.25	.671	3.02		P-105	.	532.	.	532.

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	2.0	4.99
94 lbm		CMT - PREMIUM - CLASS G REG OR TYPE V, BULK (100003685)							
4.989 Gal		FRESH WATER							
Calculated Values		Pressures		Volumes					
Displacement	1.5	Shut In: Instant		Lost Returns	0	Cement Slurry	43	Pad	
Top Of Cement		5 Min		Cement Returns	7	Actual Displacement	1.5	Treatment	
Frac Gradient		15 Min		Spacers	3	Load and Breakdown		Total Job	47.5
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					