

HALLIBURTON

NOBLE ENERGY INC E-BUSINESS

**Ocoma C17-13
Wattenberg
Weld County , Colorado**

Recement Service

20-Dec-2012

Job Site Documents

The Road to Excellence Starts with Safety

Sold To #: 345242		Ship To #: 2142772		Quote #:		Sales Order #: 900088547	
Customer: NOBLE ENERGY INC E-BUSINESS				Customer Rep: Swift, Carl			
Well Name: Ocoma			Well #: C17-13		API/UWI #:		
Field: Wattenberg		City (SAP): PLATTEVILLE		County/Parish: Weld		State: Colorado	
Contractor: Leed			Rig/Platform Name/Num: 725				
Job Purpose: Recement Service							
Well Type: Development Well			Job Type: Recement Service				
Sales Person: AARON, WESLEY			Srvc 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	0.0	407973	CONGDON, RICHARD S.	0.0	320306	DIRKS, RICHARD E	0.0	485940
HINKLE, BRADLEY Dean	0.0	512123	HOLMES, ANDREW Malcom	0.0	520802			

Equipment

HES Unit #	Distance-1 way	HES Unit #	Distance-1 way	HES Unit #	Distance-1 way	HES Unit #	Distance-1 way
10972458	30 mile	11019275	30 mile	11064046C	30 mile	12010173	30 mile
11362287C	30 mile	11606995	30 mile				

Job Hours

Date	On Location Hours	Operating Hours	Date	On Location Hours	Operating Hours	Date	On Location Hours	Operating Hours
12/20/12	6	4						
TOTAL			Total is the sum of each column separately					

Job

Formation Name	Formation Depth (MD)	Top	Bottom	Form Type	Job depth MD	Job Depth TVD	Water Depth	Perforation Depth (MD)	From	To
				BHST	4635. ft	4635. ft				
							Wk Ht Above Floor			

Job Times

Called Out	Date	Time	Time Zone
On Location	20 - Dec - 2012	05:00	MST
Job Started	20 - Dec - 2012	09:15	MST
Job Completed	20 - Dec - 2012	11:01	MST
Departed Loc	20 - Dec - 2012	14:31	MST
		16:00	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
10" Open Hole				9.				321.	4607.		
4 1/2" Production Casing	Unknown		4.5	4.	11.6				4633.		4633.
Surface Casing	Used		8.625	8.097	24.		J-55		321.		321.
1 1/4" tubing	Used		1.25	.671	3.02		P-105		4633.		4633.

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

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
Stage/Plug #: 1									

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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	13.5 FracCem	FRACCEM (TM) SYSTEM (452963)	200.0	sacks	13.5	1.48	7.07		7.07
	5 lbm	ENHANCER 923, BULK (101894003)							
	0.2 %	ECONOLITE (100001580)							
	3 lbm	SILICALITE - COMPACTED, 50 LB SK (100012223)							
	0.2 %	FE-2 (100001615)							
	0.2 %	HALAD(R)-344, 50 LB (100003670)							
	7.07 Gal	FRESH WATER							
2	15.8# Cement	CMT - PREMIUM - CLASS G, 94 LB SK (100003685)	229.0	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	9	Shut In: Instant		Lost Returns		Cement Slurry	99	Pad	
Top Of Cement	SURFACE	5 Min		Cement Returns		Actual Displacement		Treatment	
Frac Gradient		15 Min		Spacers	22	Load and Breakdown		Total Job	130
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					