

HALLIBURTON

NOBLE ENERGY INC E-BUSINESS

Ocoma C 17-15
Wattenberg
Weld County , Colorado

Recement Service
09-Jan-2013

Job Site Documents

HALLIBURTON

Cementing Job Summary

The Road to Excellence Starts with Safety

Sold To #: 345242	Ship To #: 2318534	Quote #:	Sales Order #: 900129611
Customer: NOBLE ENERGY INC E-BUSINESS		Customer Rep: Swift, Carl	
Well Name: Ocoma C	Well #: 17-15	API/UWI #: 05-123-13493	
Field: Wattenberg	City (SAP): KERSEY	County/Parish: Weld	State: Colorado
Lat: N 40.309 deg. OR N 40 deg. 18 min. 31.482 secs.		Long: W 104.57 deg. OR W -105 deg. 25 min. 48.306 secs.	
Contractor: Leed	Rig/Platform Name/Num: LEED 719		
Job Purpose: Recement Service			
Well Type: Development Well	Job Type: Recement Service		
Sales Person: AARON, WESLEY	Srvc Supervisor: PICKELL, CHRISTOPHER	MBU ID Emp #: 396838	

Job Personnel

HES Emp Name	Exp Hrs	Emp #	HES Emp Name	Exp Hrs	Emp #	HES Emp Name	Exp Hrs	Emp #
BROOM, KENDALL L	6	524682	LANGE, TIMOTHY Paul	6	520811	PICKELL, CHRISTOPHER Lee	6	396838
WILEY, JAMES A	6	440080						

Equipment

HES Unit #	Distance-1 way	HES Unit #	Distance-1 way	HES Unit #	Distance-1 way	HES Unit #	Distance-1 way
10248053C	32 mile	11106651	32 mile	11605597	32 mile	11667703C	32 mile

Job Hours

Date	On Location Hours	Operating Hours	Date	On Location Hours	Operating Hours	Date	On Location Hours	Operating Hours
1/9/13	6	5						

TOTAL

Total is the sum of each column separately

Job

Job Times

Formation Name	Formation Depth (MD)	Top	Bottom	Called Out	Date	Time	Time Zone
Form Type			BHST	On Location	09 - Jan - 2013	08:00	MST
Job depth MD	4608. ft		Job Depth TVD	Job Started	09 - Jan - 2013	09:50	MST
Water Depth			Wk Ht Above Floor	Job Completed	09 - Jan - 2013	13:18	MST
Perforation Depth (MD)	From		To	Departed Loc	09 - Jan - 2013	14:00	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.				342.	4607.		
4 1/2" Production Casing	Unknown		4.5	3.826	15.1				7070.		7070.
Surface Casing	Used		8.625	8.097	24.		J-55		342.		342.
1 1/4" tubing	Used		1.25	.671	3.02		P-105		4608.		4608.

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 #	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
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HALLIBURTON

Cementing Job Summary

1	13.5 FracCem	FRACCEM (TM) SYSTEM (452963)	250.0	sacks	13.5	1.48	7.07		7.07
	5 lbm	ENHANCER 923, BULK (101894003)							
	0.2 %	ECONOLITE (100001680)							
	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)	196.0	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	5 BBL	Shut In: Instant		Lost Returns	0 BBL	Cement Slurry	106 BBL	Pad	
Top Of Cement	0 FT	5 Min		Cement Returns	8 BBL	Actual Displacement	5 BBL	Treatment	
Frac Gradient		15 Min		Spacers	15 BBL	Load and Breakdown		Total Job	
Rates									
Circulating		Mixing	1.7	Displacement	1.7	Avg. Job	1.7		
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					