

HALLIBURTON

NOBLE ENERGY INC E-BUSINESS

Kugel W4-4
Wattenberg
Weld County , Colorado

Recement Service
16-Oct-2012

Job Site Documents

HALLIBURTON

Cementing Job Summary

The Road to Excellence Starts with Safety

Sold To #: 345242	Ship To #: 2957833	Quote #:	Sales Order #: 9893406
Customer: NOBLE ENERGY INC E-BUSINESS		Customer Rep: Beam, Ryan	
Well Name: Kugel	Well #: W4-4	API/UWI #: 05-123-15373	
Field: Wattenberg	City (SAP): UNKNOWN	County/Parish: Weld	State: Colorado
Job Purpose: Recement Service		Job Type: Recement Service	
Well Type: Development Well		Srcv Supervisor: NIELSON, BRANDON	
Sales Person: FLING, MATTHEW		MBU ID Emp #: 479703	

Job Personnel							
HES Emp Name	Exp Hrs	Emp #	HES Emp Name	Exp Hrs	Emp #	HES Emp Name	Exp Hrs
BOURGEOIS, KEVIN	3.5	459092	CHISLUM, DENNIS	3.5	612130	FINNEY, SAUN	3.5
PAUL							
NIELSON, BRANDON	3.5	479703					

Equipment							
HES Unit #	Distance-1 way	HES Unit #	Distance-1 way	HES Unit #	Distance-1 way	HES Unit #	Distance-1 way
10824253C	14 mile	10857012C	14 mile	11527037	14 mile		

Job Hours					
Date	On Location Hours	Operating Hours	Date	On Location Hours	Operating Hours
TOTAL					

Total is the sum of each column separately

Job Times									
Formation Name	Formation Depth (MD)	Top	Bottom	Called Out	Date	Time	Time Zone		
Form Type			BHST	On Location	16 - Oct - 2012	09:30	MST		
Job depth MD	850. ft		Job Depth TVD	8500. ft	16 - Oct - 2012	10:30	MST		
Water Depth			Wk Ht Above Floor	5. ft	16 - Oct - 2012	12:15	MST		
Perforation Depth (MD)	From	To	Departed Loc	16 - Oct - 2012	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
9" Open Hole				9.				650.	4985.		
2 7/8" Production Casing	Unknown								7500.		
Surface Casing	Used		8.625	8.097	24.		J-55		560.		560.
1 1/4" tubing	Used		1.25	.671	3.02		P-105		659.		659.

Tools and Accessories									
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 Name	Qty	Qty uom	Mixing Density lbm/gal	Yield ft ³ /sk	Mix Fluid Gal/sk	Rate bbl/min	Total Mix Fluid Gal/sk
Fluid #									

Stage/Plug #	1
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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	Fraccem B2	FRACCCEM (TM) SYSTEM (452963)		sacks	13.5	1.74	8.29		8.29				
	8,289 Gal	FRESH WATER											
2	15.8# Cement	CMT - PREMIUM - CLASS G, 94 LB SK (100003685)	308	sacks	15.8	1.15	5.0		5.0				
	94 lbm	CMT - PREMIUM - CLASS G REG OR TYPE V, BULK (100003685)											
	5 Gal	FRESH WATER											
Calculated Values		Pressures	Volumes										
Displacement		Shut In: Instant	Lost Returns		Cement Slurry		Pad						
Top Of Cement		5 Min	Cement Returns		Actual Displacement		Treatment						
Frac Gradient		15 Min	Spacers		Load and Breakdown		Total Job						
Rates													
Circulating		Mixing			Displacement		Avg. Job						
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								