

HALLIBURTON

NOBLE ENERGY INC E-BUSINESS

**Spike ST GWS CC 30-14
WATTENBERG
Weld County , Colorado**

Recement Service
04-Oct-2012

Job Site Documents

The Road to Excellence Starts with Safety

Sold To #: 345242	Ship To #: UNKNOWN	Quote #:	Sales Order #: 0
Customer: NOBLE ENERGY INC E-BUSINESS	Customer Rep: Swaggster, Eric		
Well Name: Spike ST GWS	Well #: CC 30-14	API/UWI #: 05-123-15829-00	
Field: WATTENBERG	City (SAP): Kersey	County/Parish: Weld	State: Colorado
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 #
DIGIACOMO, ASHLEY	3	525927	KUNERT, RANDY Joe	3	477850	OTERI, VAUGHN Steeves	3	443828
PICKELL, CHRISTOPHER Lee	3	396838						

Equipment

HES Unit #	Distance-1 way	HES Unit #	Distance-1 way	HES Unit #	Distance-1 way	HES Unit #	Distance-1 way
10822531C	32 mile	10948694	32 mile	11410470C	32 mile	11633848	32 mile

Job Hours

Date	On Location Hours	Operating Hours	Date	On Location Hours	Operating Hours	Date	On Location Hours	Operating Hours
10/4/12	3	3						
TOTAL			Total is the sum of each column separately					

Job

Job Times

Formation Name	Top	Bottom	Called Out	Date	Time	Time Zone
Formation Depth (MD)			On Location	04 - Oct - 2012	05:30	MST
Formation Type		BHST	Job Started	04 - Oct - 2012	09:00	MST
Job depth MD	564. ft	Job Depth TVD	Job Completed	04 - Oct - 2012	10:01	MST
Water Depth		Wk Ht Above Floor	Departed Loc	04 - Oct - 2012	10:52	MST
Perforation Depth (MD)	From	To		04 - Oct - 2012	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.				560.	659.		
3 1/2" Production Casing	Unknown								7500.		
Surface Casing	Used		8.625	8.097	24.		J-55		351.		351.
1 1/4" tubing	Used		1.25	.671	3.02		P-105		564.		564.

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									
id	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

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)	300.0	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	.75 BBL	Shut In: Instant		Lost Returns	0 BBL	Cement Slurry	60 BBL	Pad	
Top Of Cement	0 FT	5 Min		Cement Returns	20 BBL	Actual Displacement	.75 BBL	Treatment	
Frac Gradient		15 Min		Spacers	3 BBL	Load and Breakdown		Total Job	
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					