

The Road to Excellence Starts with Safety

Sold To #: 345242	Ship To #: 2904586	Quote #:	Sales Order #: 9266002
Customer: NOBLE ENERGY INC E-BUSINESS		Customer Rep:	
Well Name: Alter	Well #: C 16-29D	API/UWI #: 05-123-34722	
Field: WATTENBERG	City (SAP): KERSEY	County/Parish: Weld	State: Colorado
Lat: N 40.321 deg. OR N 40 deg. 19 min. 16.068 secs.		Long: W 104.563 deg. OR W -105 deg. 26 min. 14.28 secs.	
Contractor: H&P	Rig/Platform Name/Num: 322		
Job Purpose: Plug Service - Whipstock			
Well Type: Development Well	Job Type: Plug Service - Whipstock		
Sales Person: JACOBS, JESS	Srv Supervisor: ROSALES, MATTHEW	MBU ID Emp #: 392095	

### Job Personnel

HES Emp Name	Exp Hrs	Emp #	HES Emp Name	Exp Hrs	Emp #	HES Emp Name	Exp Hrs	Emp #
BANUELOS, GUADALUPE	9.5	372277	BOETTIGER, MARK	9.5	500519	HINKLE, BRADLEY Dean	9.5	512123
IPSON, TIMOTHY J	9.5	485018	MILLER, GEOFFREY Alan	9.5	460232	ROSALES, MATTHEW John	9.5	392095

### Equipment

HES Unit #	Distance-1 way	HES Unit #	Distance-1 way	HES Unit #	Distance-1 way	HES Unit #	Distance-1 way
10988836C	30 mile	11036295C	30 mile	11566182	30 mile	11605598	30 mile
11667703C	30 mile						

### Job Hours

Date	On Location Hours	Operating Hours	Date	On Location Hours	Operating Hours	Date	On Location Hours	Operating Hours
02/07/12	9.5	2						
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	Called Out	Date	Time	Time Zone
				BHST	6900. ft	6900. ft					On Location	06 - Feb - 2012	15:00	MST
											Job Started	06 - Feb - 2012	19:00	MST
											Job Completed	06 - Feb - 2012	21:38	MST
											Job Completed	07 - Feb - 2012	03:00	MST
											Departed Loc	07 - Feb - 2012	04:30	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
Open Hole				7.875				750.	7140.	.	.
Surface Casing	Used		8.625	8.097	24.		J-55	.	721.	.	.
Drill Pipe	Unknown		4.	.	14.37			.	6900.	.	.

### 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 ft <sup>3</sup> /sk	Mix Fluid Gal/sk	Rate bbl/min	Total Mix Fluid Gal/sk
1	TUNED SPACER III	TUNED SPACER III - SBM (483826)	65.00	bbl	12.2	7.35	43.54	5.0	
	35.05 gal/bbl	FRESH WATER							
	187 lbm/bbl	BARITE, 100 LB SK (100003680)							
2	Plug 2 @ 15.8#	PLUGCEM (TM) SYSTEM (452969)	50.0	sacks	15.8	1.52	6.21	5.0	6.21
	6.21 Gal	FRESH WATER							
3	Plug 3 @ 17.5#	PLUGCEM (TM) SYSTEM (452969)	200.0	sacks	17.5	.94	3.42	5.0	3.42
	3.42 Gal	FRESH WATER							
<b>Calculated Values</b>		<b>Pressures</b>		<b>Volumes</b>					
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	
<b>Rates</b>									
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					

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Activity Description	Date/Time	Cht #	Rate bbl/min	Volume bbl		Pressure psig		Comments
				Stage	Total	Tubing	Casing	
Start Job	02/06/2012 21:38							
Test Lines	02/06/2012 21:39							
Pump Spacer 1	02/06/2012 21:40		4	10			350.0	12.2#/gal TUNED SPACER
Shutdown	02/06/2012 21:45							SHUTDOWN TO MIX CEMENT FOR PLUG
Pump Cement	02/06/2012 21:52		5	13.5			200.0	50SKS, 76CUFT/SK, 1.52CUFT/SK, 6.21GAL/SK, 15.8#/GAL, MIXED WITH WATER PROVIDED BY RIG
Pump Displacement	02/06/2012 22:00		5	3.5			104.0	12.2#/GAL TUNED SPACER TO BALANCE
Pump Displacement	02/06/2012 22:02		5	88			104.0	MUD TO BALANCE
Shutdown	02/06/2012 22:20							SHUTDOWN FOR RIG TO PULL DRILL PIPE TO 2200'
Pump Spacer 1	02/07/2012 02:24		40	4			275.0	12.2#/gal TUNED SPACER
Pump Cement	02/07/2012 02:40		33.5	4			250.0	200SKS, 188CUFT, .94CUFT/SK, 3.42GAL/SK, 17.5#/GAL, MIXED WITH WATER PROVIDED BY RIG
Pump Displacement	02/07/2012 02:51		14	3			80.0	12.2#/gal TUNED SPACER TO BALANCE
Pump Displacement	02/07/2012 02:54		8	2.5			65.0	MUD TO BALANCE
End Job	02/07/2012 02:59							