

The Road to Excellence Starts with Safety

Sold To #: 345242	Ship To #: 2819093	Quote #:	Sales Order #: 7770994
Customer: NOBLE ENERGY INC E-BUSINESS		Customer Rep: Z., Eric	
Well Name: Rothe State	Well #: B36-8	API/UWI #:	
Field: WATTENBERG	City (SAP): KERSEY	County/Parish: Weld	State: Colorado
Contractor: ?	Rig/Platform Name/Num: #		
Job Purpose: Squeeze Perfs			
Well Type: Development Well		Job Type: Squeeze Perfs	
Sales Person: FLING, MATTHEW		Srv Supervisor: LINEBARGER, JOSHUA	MBU ID Emp #: 419614

Job Personnel

HES Emp Name	Exp Hrs	Emp #	HES Emp Name	Exp Hrs	Emp #	HES Emp Name	Exp Hrs	Emp #
BANUELOS, GUADALUPE	4.5	372277	HOUSMAN, CHARLES	4.5	480503	LINEBARGER, JOSHUA W	4.5	419614
NIELSON, BRANDON K	4.5	479703	WARD, SAMUEL Winfield	4.5	478713			

Equipment

HES Unit #	Distance-1 way	HES Unit #	Distance-1 way	HES Unit #	Distance-1 way	HES Unit #	Distance-1 way
10829457	41 mile	10972458	41 mile	11019275C	41 mile	11106651	41 mile
11398490	41 mile						

Job Hours

Date	On Location Hours	Operating Hours	Date	On Location Hours	Operating Hours	Date	On Location Hours	Operating Hours
11/12/10	4.5	2.5						

TOTAL Total is the sum of each column separately

Job

Job Times

Formation Name					Date						
Formation Depth (MD)		Top	Bottom		Called Out	12 - Nov - 2010	09:30	Time Zone			
Form Type		BHST		On Location		12 - Nov - 2010	12:30	MST			
Job depth MD		5200. ft		Job Depth TVD		5200. ft	Job Started	12 - Nov - 2010	13:28	MST	
Water Depth		Wk Ht Above Floor		4. ft		Job Completed	12 - Nov - 2010	15:51	MST		
Perforation Depth (MD)		From	7,120.00 ft		To	7,121.00 ft		Departed Loc	12 - Nov - 2010	17:00	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
Production Casing	New		2.875	2.441	6.5				6810.		
Tubing	Unknown		1.25						5200.		

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 ³ /sk	Mix Fluid Gal/sk	Rate bbl/min	Total Mix Fluid Gal/sk	
1	15.8# Premium squeeze cmt	CMT - PREMIUM - CLASS G, 94 LB SK (100003685)	50.0	sacks	15.8	1.15	5.0	3.0	5.0	
	94 lbm	CMT - PREMIUM - CLASS G REG OR TYPE V, BULK (100003685)								
	0.1 %	HR-5, 50 LB SK (100005050)								
	0.2 %	HALAD(R)-322, 50 LB (100003646)								
	5 Gal	FRESH WATER								
2	Water Displacement		4.00	bbl	.	.0	.0	2.0		
3	12.0# Varicem	VARICEM (TM) CEMENT (452009)	285.0	sacks	12.	2.1	11.72	3.0	11.72	
	11.72 Gal	FRESH WATER								
4	Water Displacement		2.00	bbl	.			.0		
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						