

*The Road to Excellence Starts with Safety*

Sold To #: 345242		Ship To #: 3096885		Quote #:		Sales Order #: 900694155	
Customer: NOBLE ENERGY INC E-BUSINESS				Customer Rep: ., Scott			
Well Name: Rehder			Well #: X6-13		API/UWI #:		
Field: Wattenberg		City (SAP): PLATTEVILLE		County/Parish: Weld		State: Colorado	
Contractor: WORKOVER			Rig/Platform Name/Num: WORKOVER				
Job Purpose: Recement Service							
Well Type: Development Well				Job Type: Recement Service			
Sales Person: FLING, MATTHEW			Srcv Supervisor: BARRAS, JOSEPH		MBU ID Emp #: 405168		

**Job Personnel**

HES Emp Name	Exp Hrs	Emp #	HES Emp Name	Exp Hrs	Emp #	HES Emp Name	Exp Hrs	Emp #
BARNES, BRIAN L	0.0	485204	BARRAS, JOSEPH Corey	0.0	405168	NESBITT, ROY Iverson	0.0	537416

**Equipment**

HES Unit #	Distance-1 way	HES Unit #	Distance-1 way	HES Unit #	Distance-1 way	HES Unit #	Distance-1 way
11362287C	20 mile	11748359	20 mile	NA	20 mile		

**Job Hours**

Date	On Location Hours	Operating Hours	Date	On Location Hours	Operating Hours	Date	On Location Hours	Operating Hours
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	26 - Aug - 2013	08:00	MST
Job depth MD	906. ft		Job Depth TVD	Job Started	26 - Aug - 2013	09:00	MST
Water Depth			Wk Ht Above Floor	Job Completed	26 - Aug - 2013	10:00	MST
Perforation Depth (MD)	From		To	Departed Loc	26 - Aug - 2013	11:00	MST

**Well Data**

Description	New / Used	Max pressure psig	Size in	ID in	Weight lbf/ft	Thread	Grade	Top MD ft	Bottom MD ft	Top TVD ft	Bottom TVD ft
4 1/2" Production Casing	Unknown		4.5	3.826	15.1	BTC	J-55	.	1750.		
1 1/4" CSI Tubing Drill Pipe	Unknown		1.25	.671	3.02	8 RD	P-110	.	900.		

**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			

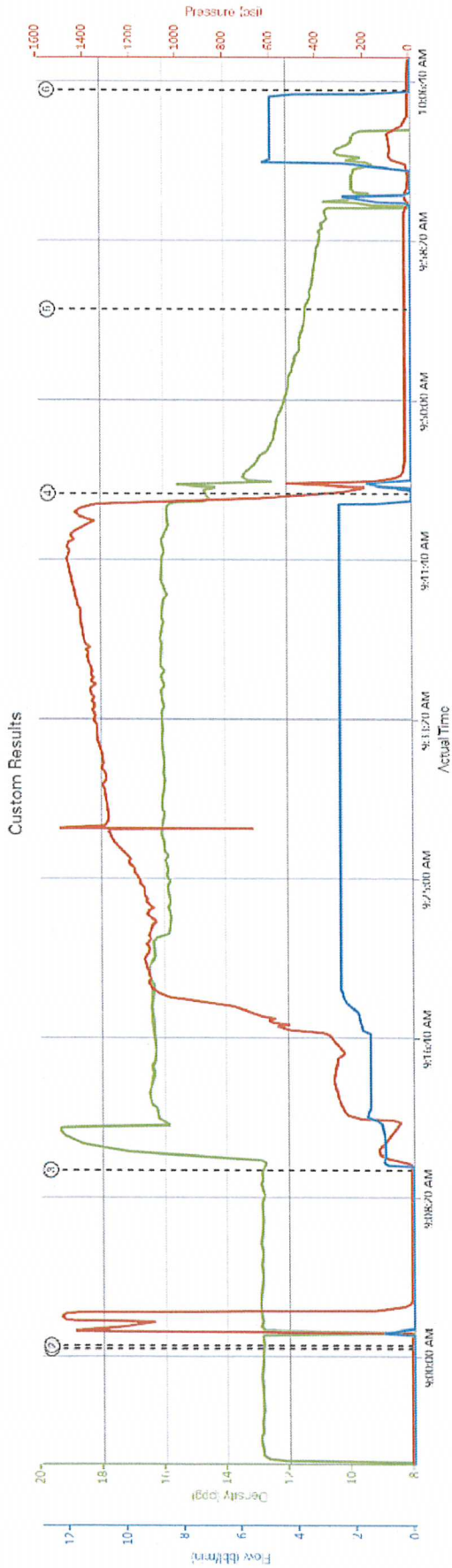
**Miscellaneous Materials**

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	Tail Cement	HALCEM (TM) SYSTEM (452986)	358.0	sacks	15.8	1.15	5.0	2.5	5.0
	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 @
The Information Stated Herein Is Correct				Customer Representative Signature					

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## Data Acquisition



- ① Start Job
- ② Test Line
- ③ Pump Current
- ④ Pump Displacement
- ⑤ End Job
- ⑥ End Job

⑦ End Job

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Flow (lb/min) Density (ppg) PS Pump Press (psi) Grand Pump Rate (bbl/hr)

Created: 2015-08-24 08:07:55 Version: 1.4.1/6

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## Wellbore Geometry

Job Tubulars					MD		TVD		Excess %	Shoe Joint Length ft
Type	Description	Size in	ID in	Wt lbm/ft	Top ft	Bottom ft	Top ft	Bottom ft		
Casing	4 1/2" Production Casing	4.50	3.826	15.10	0.00	1,750.00				
Tubing	1 1/4" CSI Tubing Drill Pipe	1.25	.671	3.02	0.00	900.00	0.00	0.00		

Tubular Specification				Coupling Information		
Type	Description	Thread	Grade	OD in	Length in	Joint Length
Casing	4 1/2" Production Casing	BTC	J-55		0.00	0.00
Tubing	1 1/4" CSI Tubing Drill Pipe	8 RD	P-110		0.00	0.00

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## Pumping Schedule

Stage /Plug #	Fluid #	Fluid Type	Fluid Name	Surface Density lbm/gal	Avg Rate bbl/min	Surface Volume	Downhole Volume
1	1	Cement Slurry	Tail Cement	15.80	2.50	358.0 sacks	358.0 sacks

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## Service Supervisor Reports

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### Job Log

Date/Time	Chart #	Activity Code	Pump Rate	Cum Vol	Pump	Pressure (psig)	Comments
08/26/2013 09:00		Start Job					
08/26/2013 09:01		Test Lines	0.5				TEST LINES TO 200 PSI NO VISIBLE LEAKS
08/26/2013 09:09		Pump Cement	2.5	74		1498.0	MIXED 358 SKS @ 15.8 PPG OG G CEMENT
08/26/2013 09:45		Pump Displacement	0.5	1		730.0	FRESH WATER
08/26/2013 09:53		Shutdown					
08/26/2013 09:54		End Job					