

## The Road to Excellence Starts with Safety

Sold To #: 345242		Ship To #: 2964130		Quote #:		Sales Order #: 900006550	
Customer: NOBLE ENERGY INC E-BUSINESS				Customer Rep: Beam, Ryan			
Well Name: Bickling			Well #: E 21-15		API/UWI #: 05-123-18711		
Field: WATTENBERG		City (SAP): GREELEY		County/Parish: Weld		State: Colorado	
Lat: N 40.466 deg. OR N 40 deg. 27 min. 59.342 secs.				Long: W 104.666 deg. OR W -105 deg. 20 min. 1.5 secs.			
Contractor: Ensign			Rig/Platform Name/Num: Leed 715				
Job Purpose: Recement Service							
Well Type: Development Well				Job Type: Recement Service			
Sales Person: AARON, WESLEY				Srv Supervisor: WHEELER, JUSTIN		MBU ID Emp #: 196470	

## Job Personnel

HES Emp Name	Exp Hrs	Emp #	HES Emp Name	Exp Hrs	Emp #	HES Emp Name	Exp Hrs	Emp #
MILLER, GEOFFREY Alan	2.5	460232	RICHEY, JESSICA L	2.5	525703	WHEELER, JUSTIN W	2.5	196470

## Equipment

HES Unit #	Distance-1 way	HES Unit #	Distance-1 way	HES Unit #	Distance-1 way	HES Unit #	Distance-1 way
11488570C	35 mile	11605599	35 mile	53301	35 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	Top	Bottom	Called Out	Date	Time	Time Zone
Formation Depth (MD)			15 - Nov - 2012	00:00	MST	
Form Type	BHST		15 - Nov - 2012	12:00	MST	
Job depth MD	467. ft	Job Depth TVD	15 - Nov - 2012	13:27	MST	
Water Depth		Wk Ht Above Floor	15 - Nov - 2012	13:54	MST	
Perforation Depth (MD)	From	To	15 - Nov - 2012	14:30	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
9" Open Hole				9.				371.	467.		
4 1/2" Production Casing	Unknown		4.5	4.	11.6				467.		467.
Surface Casing	Used		8.625	8.097	24.		J-55		371.		371.
1 1/4" tubing	Used		1.25	.671	3.02		P-105		467.		467.

## 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

Fluid #	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									

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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	15.8# Cement	CMT - PREMIUM - CLASS G, 94 LB SK (100003685)	165.0	sacks	15.8	1.15	4.99		4.99
94 lbm		CMT - PREMIUM - CLASS G REG OR TYPE V, BULK (100003685)							
4.989 Gal		FRESH WATER							
Calculated Values		Pressures		Volumes					
Displacement	1.5	Shut In: Instant		Lost Returns	No	Cement Slurry	44	Pad	
Top Of Cement	Surface	5 Min		Cement Returns	6 bbls	Actual Displacement	1.5	Treatment	
Frac Gradient		15 Min		Spacers	5 bbls	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					

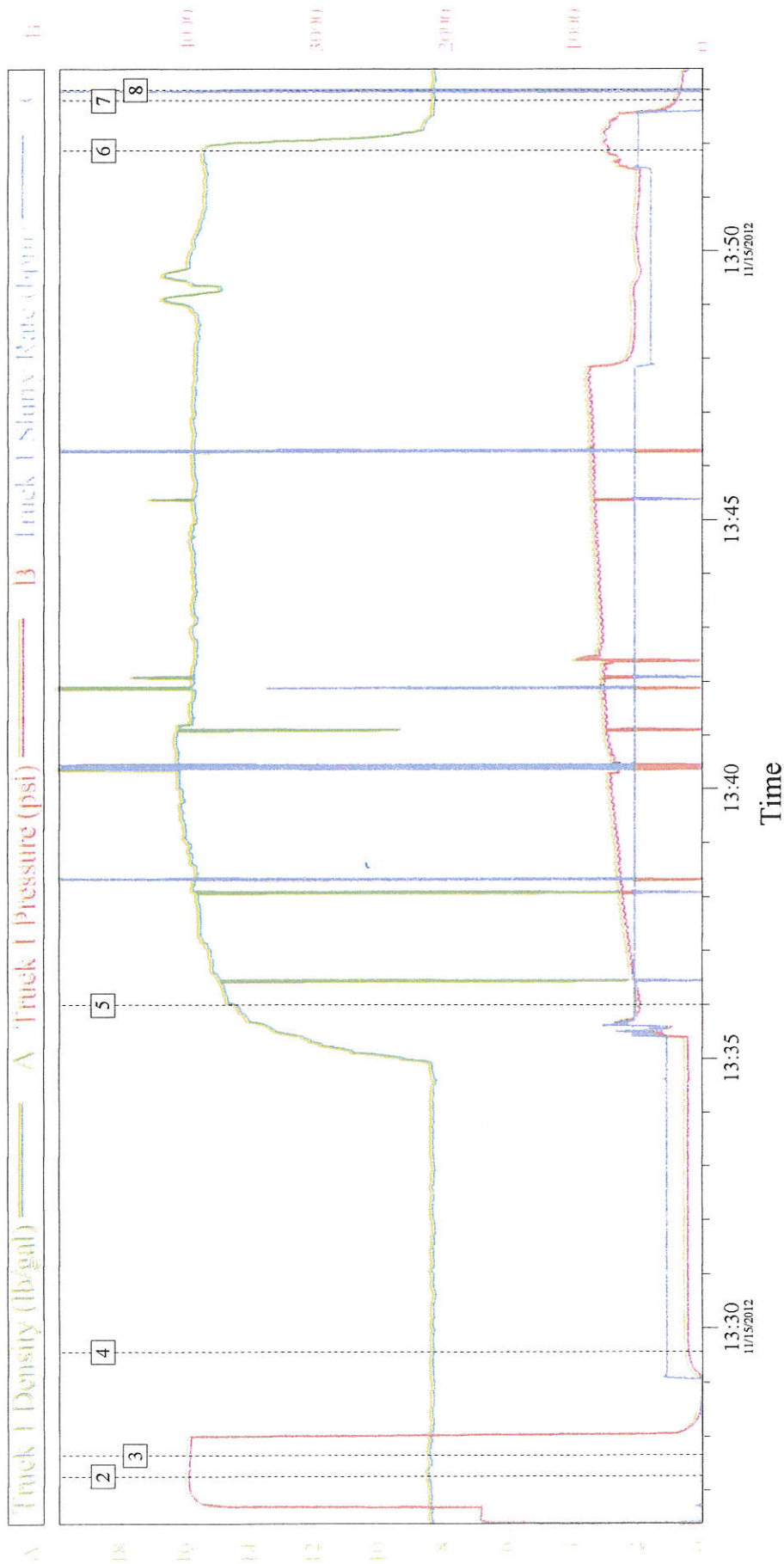


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Legal Description:							
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Activity Description	Date/Time	Cht #	Rate bbl/min	Volume bbl		Pressure psig		Comments
				Stage	Total	Tubing	Casing	
Depart from Service Center or Other Site	11/15/2012 11:00							
Arrive At Loc	11/15/2012 12:00							
Safety Meeting - Pre Rig-Up	11/15/2012 12:30							Water Provided By Customer, Tested Ok For Mixing Cement
Test Lines	11/15/2012 13:27							Pressure test Lines to 3500 PSI
Pump Spacer	11/15/2012 13:29		1	5		110.0		Pump Fresh Water Spacer
Pump Cement	11/15/2012 13:36		2	34		495.0		Mix and Pump 165 sks Class G Cement @ 15.8 lb/gal (Density Verified By Pressurized Scales)
Cement Returns to Surface	11/15/2012 13:49							6 bbls Cement to Surface
Pump Displacement	11/15/2012 13:51		2	1.5		745.0		Pump 1.5 bbls Fresh Water Displacement
Shutdown	11/15/2012 13:52					210.0		
Other	11/15/2012 13:53							200 sks Class G Neat Cement Delivered to Location, Used 165 sks for Job, Returned 35 sks to Yard
Safety Meeting - Pre Rig-Down	11/15/2012 14:00							
Safety Meeting - Departing Location	11/15/2012 14:30							

# Noble - Bickling E21-15 Annular Fill



Global Event Log			
Intersection			
	TIP	TIME	SPST
2 Start Job	13:27:17	3087	0.100
3 Test Lines	13:27:40	3978	0.100
4 Pump Fresh Water	13:29:34	1102	0.600
5 Pump Cement	13:36:00	4913	1.400
6 Pump Displacement	13:51:53	7422	32.24
7 Shut-Down	13:52:48	20916	1.500
8 Bad Connection Between Truck and Computer, caused Several Drastic Changes on Chart	13:53:00	9230	6.867

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