

The Road to Excellence Starts with Safety

Sold To #: 345242	Ship To #: 2964129	Quote #:	Sales Order #: 900006547
Customer: NOBLE ENERGY INC E-BUSINESS	Customer Rep: HOHNSTEIN, CHRIS		
Well Name: Hungenberg Watson	Well #: E 21-14	API/UWI #: 05-123-18710	
Field: WATTENBERG	City (SAP): GREELEY	County/Parish: Weld	State: Colorado
Lat: N 40.466 deg. OR N 40 deg. 27 min. 58.262 secs.	Long: W 104.67 deg. OR W -105 deg. 19 min. 47.316 secs.		
Contractor: Leed	Rig/Platform Name/Num: Leed 715		
Job Purpose: Recement Service			
Well Type: Development Well	Job Type: Recement Service		
Sales Person: AARON, WESLEY	Srv Supervisor: SNYDER, JONATHAN	MBU ID Emp #: 435616	

Job Personnel

HES Emp Name	Exp Hrs	Emp #	HES Emp Name	Exp Hrs	Emp #	HES Emp Name	Exp Hrs	Emp #
HOLLOWAY, DUSTIN Craig	5.5	504032	MILLER, GEOFFREY Alan	5.5	460232	MULLER, MICHEL B	5.5	529830
SNYDER, JONATHAN Leroy	5.5	435616						

Equipment

HES Unit #	Distance-1 way	HES Unit #	Distance-1 way	HES Unit #	Distance-1 way	HES Unit #	Distance-1 way
11398319	37 mile	11488570C	37 mile	11518548	37 mile	11562562	37 mile

Job Hours

Date	On Location Hours	Operating Hours	Date	On Location Hours	Operating Hours	Date	On Location Hours	Operating Hours
11/15/2012	5.5	0.5						

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	15 - Nov - 2012	04:00	MST
Form Type		BHST	Job Started	15 - Nov - 2012	07:30	MST
Job depth MD	560. ft	Job Depth TVD	Job Completed	15 - Nov - 2012	11:16	MST
Water Depth		Wk Ht Above Floor	Departed Loc	15 - Nov - 2012	11:52	MST
Perforation Depth (MD)	From	To		15 - Nov - 2012	13:00	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
3 1/2" Production	Unknown								550.		
Surface Casing	Used		8.625	8.097	24.		J-55		355.		
1 1/4" tubing	Used		1.25	.671	3.02		P-105		560.		

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 Name	Qty	Qty uom	Mixing Density lbm/gal	Yield ft3/sk	Mix Fluid Gal/sk	Rate bbl/min	Total Mix Fluid Gal/sk
Fluid #	Stage Type							

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)	235.0	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	Shut In: Instant		Lost Returns		Cement Slurry	48	Pad	
Top Of Cement	0	5 Min		Cement Returns	1	Actual Displacement	1	Treatment	
Frac Gradient		15 Min		Spacers	5	Load and Breakdown		Total Job	
Rates									
Circulating	2	Mixing	2	Displacement	2	Avg. Job	2		
Cement Left In Pipe	Amount	0 ft	Reason						
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					

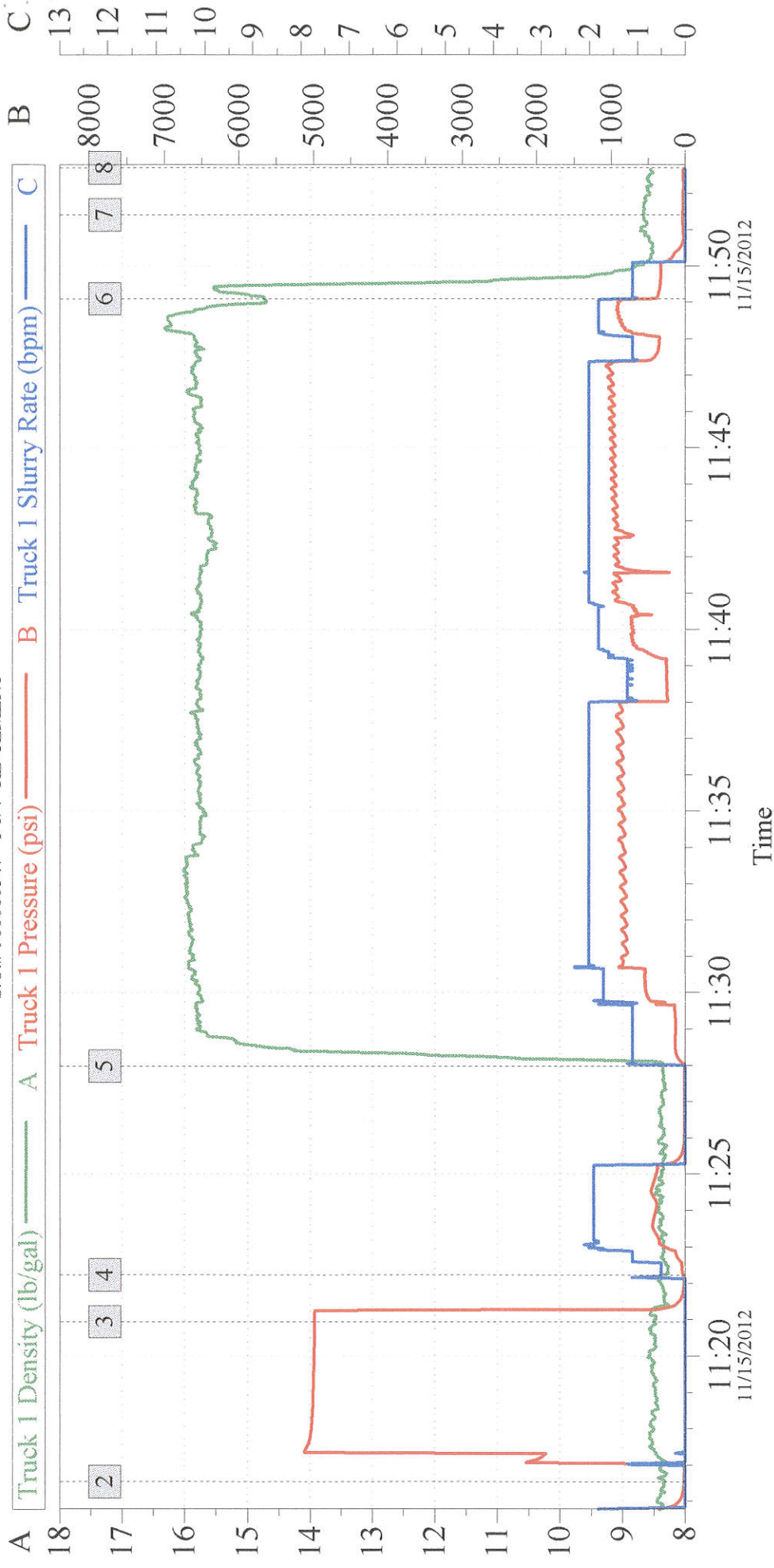
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Legal Description:							
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Well Type: Development Well			Job Type: Recement Service				
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Activity Description	Date/Time	Cht #	Rate bbl/min	Volume bbl		Pressure psig		Comments
				Stage	Total	Tubing	Casing	
Arrive at Location from Service Center	11/15/2012 07:30							ARRIVED AND CONDUCTED A HAZARD HUNT AND FOUND NO HAZARDS THAT CONFLICT WITH US RIGGING UP EQUIPMENT.
Pre-Job Safety Meeting	11/15/2012 10:50							HELD SAFETY MEETING WITH ALL EMPLOYEES AND ALL THIRD PARTY PERSONEL PRIOR TO PUMPING THE CEMENT JOB.
Start Job	11/15/2012 11:16							
Test Lines	11/15/2012 11:20							PRESSURE TEST LINES TO 4980 PSI
Pump Spacer 1	11/15/2012 11:22		1	5			347.3	W/ RIG WATER
Pump Cement	11/15/2012 11:27		2	48			727.3	235 SKS PREMIUM G NEAT MIXED @ 15.8 PPG W/ RIG WATER
Pump Displacement	11/15/2012 11:49		1	1			315.3	W/ RIG WATER
End Job	11/15/2012 11:52							WE GOT CEMENT BACK TO SURFACE WITH 48 BBLS GONE SO WE ONLY CHARGED FOR 235 SKS AND BROUGHT THE REST OF THE CEMENT BACK TO THE YARD.

Pre-Rig Down Safety Meeting	11/15/2012 11:55							HELD SAFETY MEETING WITH ALL EMPLOYEES PRIOR TO RIGGING DOWN AND DISCUSSED ALL HAZARDS WHILE RIGGING DOWN EQUIPMENT.
Activity Description	Date/Time	Cht #	Rate bbl/ min	Volume bbl		Pressure psig		Comments
				Stage	Total	Tubing	Casing	
Depart Location for Service Center or Other Site	11/15/2012 13:00							HELD SAFETY MEETING PRIOR TO LEAVING LOCATION AND DISCUSSED ALL POTENTIAL HAZARDS WHILE DRIVING BACK TO THE SERVICE CENTER.

NOBLE HUNGENBERG WATSON E 21-14
S.O.# 900006547 1 1/4" RE-CEMENT



Global Event Log								
Intersection		TID	TIP	Intersection		TID	TIP	
2	Start Job	11:16:32	8.324	3	Test Lines	11:20:56	8.490	4980
4	Pump Water Spacer	11:22:13	8.365	5	Pump Cement @ 15.8#	11:27:58	8.360	6.000
6	Pump Displacement	11:49:06	14.73	7	End Job	11:51:25	8.670	33.00
8	Ending Job	11:52:42	8.550					

Customer:
Well Description:

Job Date: 15-Nov-2012
UWI:

Sales Order #: 900006547