

The Road to Excellence Starts with Safety

Sold To #: 345242	Ship To #: 2964131	Quote #:	Sales Order #: 900006552
Customer: NOBLE ENERGY INC E-BUSINESS		Customer Rep: Swift, Carl	
Well Name: Bickling	Well #: E21-02	API/UWI #: 18707	
Field: WATTENBERG	City (SAP): GREELEY	County/Parish: Weld	State: Colorado
Legal Description:			
Lat: N 0 deg. OR N 0 deg. 0 min. 0 secs.		Long: E 0 deg. OR E 0 deg. 0 min. 0 secs.	
Contractor: Ensign		Rig/Platform Name/Num: Leed 715	
Job Purpose: Recement Service			Ticket Amount:
Well Type: Development Well		Job Type: Recement Service	
Sales Person: AARON, WESLEY		Srvc Supervisor: WHEELER, JUSTIN	MBU ID Emp #: 196470

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 06:30							
Arrive At Loc	11/15/2012 08:00							
Safety Meeting - Pre Rig-Up	11/15/2012 08:30							Water Provided By Customer, Tested Ok for Mixing Cement
Test Lines	11/15/2012 09:26							Pressure Test Lines to 4000 PSI
Pump Spacer	11/15/2012 09:29		1	5		75.0		Pump Fresh Water Spacer
Pump Cement	11/15/2012 09:37		2	44		500.0		Mix and Pump 215 sks Class G Cement @ 15.8 lb/gal (Density Verified By Pressurized Scales)
Cement Returns to Surface	11/15/2012 09:55							6 bbls Cement to Surface
End Job	11/15/2012 09:58							
Shutdown	11/15/2012 09:58							Shut-Down
Safety Meeting - Pre Rig-Down	11/15/2012 10:30							Wet and Dry Samples of Cement Left on Location
Safety Meeting - Departing Location	11/15/2012 11:00							

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Job Personnel

HES Emp Name	Exp Hrs	Emp #	HES Emp Name	Exp Hrs	Emp #	HES Emp Name	Exp Hrs	Emp #
MEADOWS, DANIEL Graham	3	500668	RICHEY, JESSICA L	3	525703	WHEELER, JUSTIN W	3	196470

Equipment

HES Unit #	Distance-1 way	HES Unit #	Distance-1 way	HES Unit #	Distance-1 way	HES Unit #	Distance-1 way
11036298	35 mile	11542778	35 mile	11605599	35 mile		

Job Hours

Date	On Location Hours	Operating Hours	Date	On Location Hours	Operating Hours	Date	On Location Hours	Operating Hours
11-15-12	3	2.5						

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	15 - Nov - 2012	08:00	MST	
Job depth MD	536. ft	Job Depth TVD	Job Started	15 - Nov - 2012	09:25	MST	
Water Depth		Wk Ht Above Floor	Job Completed	15 - Nov - 2012	09:58	MST	
Perforation Depth (MD) From		To	Departed Loc	15 - Nov - 2012	11:00	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
Surface Casing	Used		8.625	8.097	24.		J-55	.	352.	.	352.
1 1/4" tubing	Used		1.25	.671	3.02		P-105	.	536.	.	536.
2 7/8" Production Casing	Unknown		2.875	2.441	6.5		N-80	.	451.	.	451.

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	

Stage/Plug #: 1

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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)	215	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		Shut In: Instant		Lost Returns		Cement Slurry	44	Pad		
Top Of Cement		5 Min		Cement Returns	6 bbls	Actual Displacement		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						

