

The Road to Excellence Starts with Safety

Sold To #: 345242	Ship To #: 3110616	Quote #:	Sales Order #: 900806424
Customer: NOBLE ENERGY INC E-BUSINESS		Customer Rep: Burns, Pete	
Well Name: Lauridson	Well #: VV184J	API/UWI #:	
Field:	City (SAP): PLATTEVILLE	County/Parish: Weld	State: Colorado
Contractor: WORKOVER	Rig/Platform Name/Num: LEAD 719		
Job Purpose: Squeeze Perfs			
Well Type: Development Well	Job Type: Squeeze Perfs		
Sales Person: FLING, MATTHEW	Srv Supervisor: BULINSKI, MATTHEW	MBU ID Emp #: 483865	

## Job Personnel

HES Emp Name	Exp Hrs	Emp #	HES Emp Name	Exp Hrs	Emp #	HES Emp Name	Exp Hrs	Emp #
BULINSKI, MATTHEW J	4	483865	CARPENTER, JACOB P	4	499500	VIATOR, JASON R.	4	550394

## Equipment

HES Unit #	Distance-1 way	HES Unit #	Distance-1 way	HES Unit #	Distance-1 way	HES Unit #	Distance-1 way
10972458	10 mile	11019275C	10 mile	11542778	10 mile	11605598	10 mile

## Job Hours

Date	On Location Hours	Operating Hours	Date	On Location Hours	Operating Hours	Date	On Location Hours	Operating Hours
10-8-13	4	1						

TOTAL Total is the sum of each column separately

## Job

## Job Times

Formation Name	Formation Depth (MD)	Top	Bottom	Form Type	Job depth MD	Job Depth TVD	Water Depth	Perforation Depth (MD)	From	To	Called Out	Date	Time	Time Zone
				BHST	1040. ft	1040. ft	Wk Ht Above Floor					08 - Oct - 2013	04:45	MST
											On Location	08 - Oct - 2013	07:50	MST
											Job Started	08 - Oct - 2013	10:07	MST
											Job Completed	08 - Oct - 2013	11:15	MST
											Departed Loc	08 - Oct - 2013	12:00	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
9.625" Surface Casing	Unknown		9.625	8.921	36.			.	842.	.	842.
1 1/4" Tubing	Unknown		1.25	2.441	2.4			.	1040.	.	1040.

## 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
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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	Fresh Water			bbl	8.34	1.0	1.0	2.0		
2	HALCEM	HALCEM (TM) SYSTEM (452986)	400.0	sacks	15.8	1.15	5.0	2.0	5.0	
5 Gal		FRESH WATER								
Calculated Values		Pressures		Volumes						
Displacement	1.5	Shut In: Instant		Lost Returns	18.5	Cement Slurry	82	Pad		
Top Of Cement		5 Min		Cement Returns	0	Actual Displacement	1.5	Treatment		
Frac Gradient		15 Min		Spacers	0	Load and Breakdown		Total Job	83.5	
Rates										
Circulating	1.5	Mixing	1.5	Displacement	1.5	Avg. Job	1.5			
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						

## Cementing Job Log

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Well Name: Lauridson		Well #: VV184J	API/UWI #:
Field:	City (SAP): PLATTEVILLE	County/Parish: Weld	State: Colorado
Legal Description:			
Lat:		Long:	
Contractor: WORKOVER		Rig/Platform Name/Num: LEAD 719	
Job Purpose: Squeeze Perfs			Ticket Amount:
Well Type: Development Well		Job Type: Squeeze Perfs	
Sales Person: FLING, MATTHEW		Srvc Supervisor: BULINSKI, MATTHEW	MBU ID Emp #: 483865

Activity Description	Date/Time	Cht #	Rate bbl/ min	Volume bbl		Pressure psig		Comments
				Stage	Total	Tubing	Casing	
Call Out	10/08/2013 04:45							
Depart Yard Safety Meeting	10/08/2013 07:15							JSA on Pre-tripping trucks and driving to Location
Crew Leave Yard	10/08/2013 07:30							
Arrive at Location from Service Center	10/08/2013 07:50							Arrived 1hr early to location and rig is still tripping in tubing, Rig Finished on time but had to wait on 3rd party water truck which arrived at 09:35
Assessment Of Location Safety Meeting	10/08/2013 07:55							Hazard Hunt on location before spotting in trucks
Safety Meeting - Pre Rig-Up	10/08/2013 08:00							JSA on rigging up bulk trucks and Iron to Rig
Rig-Up Equipment	10/08/2013 08:10							
Rig-Up Completed	10/08/2013 08:30							
Safety Meeting - Pre Job	10/08/2013 09:45							JSA with company man, third party, rig hands and HES hands on pump schedule
Start Job	10/08/2013 10:07							
Test Lines	10/08/2013 10:19							3500psi Pressure Test Lines to Rig floor
Activity Description	Date/Time	Cht #	Rate bbl/ min	Volume bbl		Pressure psig		Comments
				Stage	Total	Tubing	Casing	

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SUMMIT Version: 7.3.0106

Tuesday, October 08, 2013 11:25:00

*Cementing Job Log*

Pump Cement	10/08/2013 10:28		1.5	82			1410. 0	400sks Premium Mtn G. 15.8ppg, 1.15yield, 5.0gal/sk, Mixed with water of truck and # verify by pressurized mud scales.. Lost returns 65bbls into pumping cmt never regained returns
Pump Displacement	10/08/2013 11:09		1.5	1.5	83.5		1250. 0	Displace 1.5bbls H2O to clean lines
Shutdown	10/08/2013 11:14							
End Job	10/08/2013 11:15							
Safety Meeting - Pre Rig- Down	10/08/2013 11:20							Safety huddle by supervisor truck on rigging down bulk trucks and iron from rig
Rig-Down Equipment	10/08/2013 11:30							
Rig-Down Completed	10/08/2013 11:55							
Safety Meeting - Departing Location	10/08/2013 12:00							JSA on pre-tripping trucks and driving back to Brighton yard