HALLIBURTON

Cementing Job Summary

The Road to Excellence Starts with Safety

Sold To #: 345242	**Ship To #:** 2451300	**Quote #:**	**Sales Order #:** 901008930
Customer: NOBLE ENERGY INC E-BUSINESS		**Customer Rep:** Burns, Pete	
Well Name: Hardesty	**Well #:** I 10-04		**API/UWI #:**
Field:	**City (SAP):** LUCERNE	**County/Parish:** Weld	**State:** Colorado
Contractor: Workover	**Rig/Platform Name/Num:** Workover		
Job Purpose: Squeeze Perfs			
Well Type: Development Well	**Job Type:** Squeeze Perfs		
Sales Person: FINK, JOHN	**Srvc Supervisor:** WHIPPLE, WESLEY	**MBU ID Emp #:** 518611	

Job Personnel

HES Emp Name	Exp Hrs	Emp #	HES Emp Name	Exp Hrs	Emp #	HES Emp Name	Exp Hrs	Emp #
BARNES, BRIAN L	2.5	485204	NIELSON, BRANDON K	2.5	479703	WHIPPLE, WESLEY Morgan	2.5	518611

Equipment

HES Unit #	*Distance-1 way*	HES Unit #	*Distance-1 way*	HES Unit #	*Distance-1 way*	HES Unit #	*Distance-1 way*
11667703C	44 mile	11748359	44 mile	12010172	44 mile	NA	44 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

Formation Name			
Formation Depth (MD)	**Top**	**Bottom**	
Form Type		**BHST**	
Job depth MD	725. ft	**Job Depth TVD**	725. ft
Water Depth		**Wk Ht Above Floor**	2. ft
Perforation Depth (MD)	*From*	**To**	

Job Times

	Date	Time	Time Zone
Called Out	02 - Jan - 2014	05:00	MST
On Location	02 - Jan - 2014	10:30	MST
Job Started	02 - Jan - 2014	00:00	MST
Job Completed	02 - Jan - 2014	00:00	MST
Departed Loc	02 - Jan - 2014	00:00	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
8.625" Surface Casing	Unknown		8.625	8.921				.	425.	.	425.
1 1/4" Tubing	Unknown		1.25	2.441				.	725.	.	725.

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 ft3/sk	Mix Fluid Gal/sk	Rate bbl/min	Total Mix Fluid Gal/sk

Stage/Plug #: 1

Fluid #	Stage Type	Fluid Name	Qty	Qty uom	Mixing Density uom	Yield uom	Mix Fluid uom	Rate uom	Total Mix Fluid uom

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Stage/Plug #: 1									
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
1	Fresh Water			bbl	8.34	1.0	1.0	2.0	
2	HALCEM	HALCEM (TM) SYSTEM (452986)	200	sacks	15.8	1.15	5.0	2.0	5.0
	5 Gal	FRESH WATER							

Calculated Values		Pressures		Volumes					
Displacement		Shut In: Instant		Lost Returns		Cement Slurry	45	Pad	
Top Of Cement		5 Min		Cement Returns	9	Actual Displacement	1.5	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 @	ID

The Information Stated Herein Is Correct	Customer Representative Signature

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Well Name: Hardesty	**Well #:** I 10-04		**API/UWI #:**
Field:	**City (SAP):** LUCERNE	**County/Parish:** Weld	**State:** Colorado
Legal Description:			
Lat:		**Long:**	
Contractor: Workover	**Rig/Platform Name/Num:** Workover		
Job Purpose: Squeeze Perfs			**Ticket Amount:**
Well Type: Development Well	**Job Type:** Squeeze Perfs		
Sales Person: FINK, JOHN	**Srvc Supervisor:** WHIPPLE, WESLEY		**MBU ID Emp #:** 518611

Activity Description	Date/Time	Cht #	Rate bbl/ min	Volume bbl		Pressure psig		Comments
				Stage	Total	Tubing	Casing	
Crew Leave Yard	01/02/2014 09:20							CREW PRE TRIPPED EQUIPMENT, HELD PRE JOURNEY SAFETY MEETING AND DEPARTED TO LOCATION
Arrive At Loc	01/02/2014 10:30							CREW ARRIVED ON LOCATION, HELD PRE RIG UP SAFETY MEETING AND BEGAN TO SPOT IN TRUCKS AND RIG UP IRON
Rig-Up Equipment	01/02/2014 10:40							COMMENCED RIG UP OF EQUIPMENT
Rig-Up Completed	01/02/2014 11:00							RIG UP COMPLETED
Call Out	01/02/2014 11:10							CREW CALLED OUT BY ARS OFFICE @ 0500
Safety Meeting	01/02/2014 11:22							HELD PRE JOB SAFETY MEETING WITH ALL HANDS ON LOCATION TO DISCUSS JOB PROCESS AND PROCEDURES, ALSO POTENTIAL HAZARDS DURING JOB
Start Job	01/02/2014 11:32							
Test Lines	01/02/2014 11:34						3000.0	PRESSURE TESTED PUMPS AND LINES TO 3000PSI, FOUND NO LEAKS IN IRON AND PRESSURE HELD

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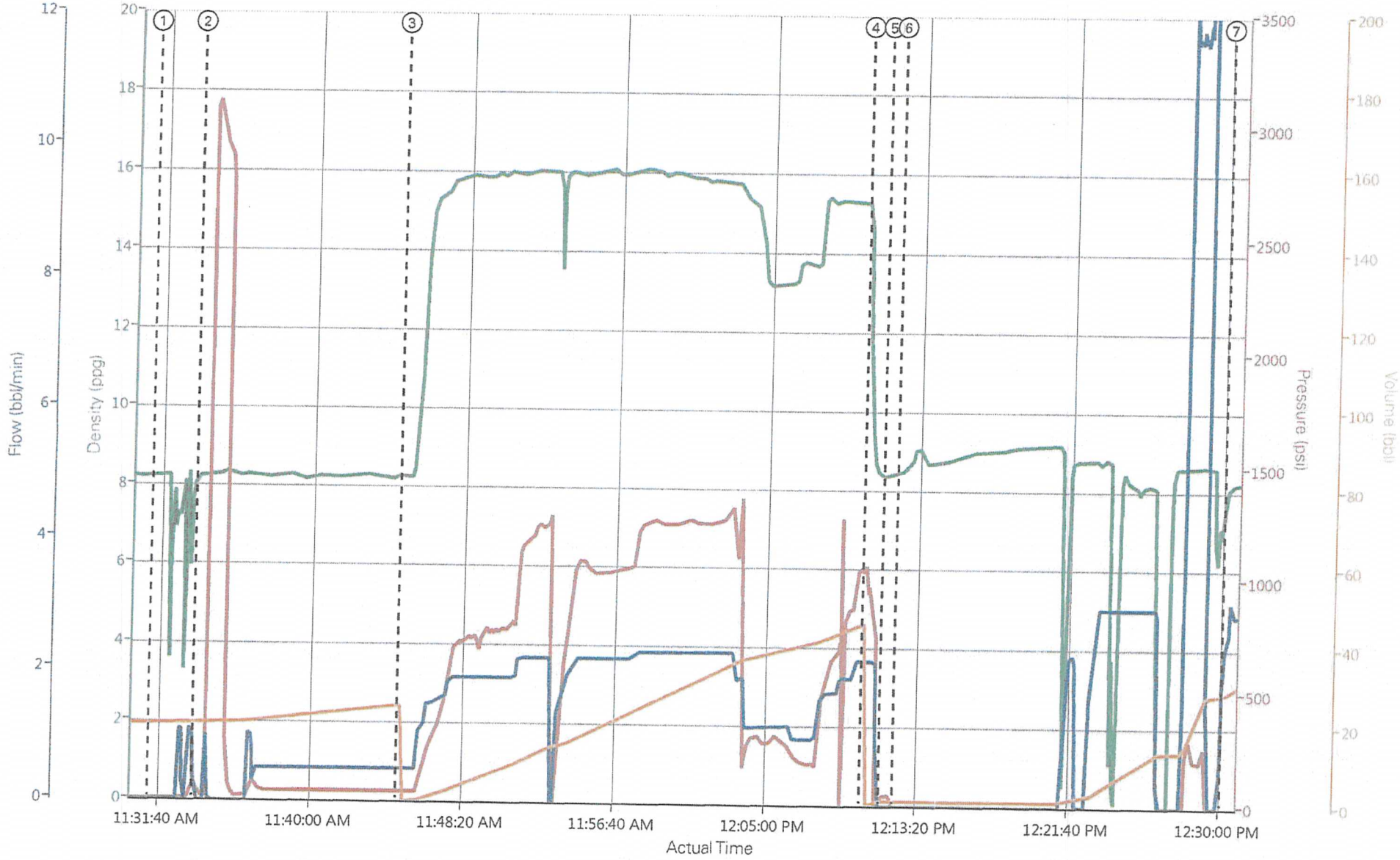
Activity Description	Date/Time	Cht #	Rate bbl/ min	Volume bbl		Pressure psig		Comments
				Stage	Total	Tubing	Casing	
Pump Cement	01/02/2014 11:46		2.3	45			1260.0	MIXED AND PUMPED 200SKS OF HALCEM AT 15.8PPG. DENSITY VERIFIED BY MUD SCALES.
Pump Displacement	01/02/2014 12:10		1.5	1.5			30.0	PUMP 1.5BBLS OF FRESH WATER DISPLACEMENT
Release Annulus Pressure	01/02/2014 12:11							RELEASED PRESSURE FROM WELL
Shutdown	01/02/2014 12:12							
Clean Lines	01/02/2014 12:13							CLEAN PUMPS AND LINES
End Job	01/02/2014 12:30							

NOBLE HARDESTY I 10-04



① Start Job 8.24;3;0;19.4
② Test Lines 8.28;54;0;20.1
③ Pump Cement 8.26;41;0.5;0
④ Pump Displacement 13.13;1041;2.2;0
⑤ Shutdown 8.35;47;0;1.4
⑥ Clean Lines 8.46;-109;0;1.4
⑦ End Job 8.04;-131;2.4;28.8