

*The Road to Excellence Starts with Safety*

Sold To #: 345242	Ship To #: 2729617	Quote #:	Sales Order #: 0905029852
Customer: NOBLE ENERGY INC-EBUS		Customer Rep: Sarah McDonnell	
Well Name: Harsh		Well #: H26-10	API/UWI #: 05-123-29677
Field:	City (SAP): KERSEY	County/Parish: WELD	State: COLORADO
Legal Description:			
Contractor:		Rig/Platform Name/Num:	
Job BOM: 7528 7528			
Well Type: GAS			
Sales Person: HALAMERICA\HB70026		Srv Supervisor: Aaron Smith	

### Fluid Data

Stage/Plug #: 1

Fluid #	Stage Type	Fluid Name	Qty	Qty UoM	Mixing Density lbm/gal	Yield ft3/sack	Mix Fluid Gal	Rate bbl/mi n	Total Mix Fluid Gal
1	CIBP Plug	HALCEM (TM) SYSTEM	20	sack	15.8	1.51		2	6.21
6842-6495		FRESH WATER							

Fluid #	Stage Type	Fluid Name	Qty	Qty UoM	Mixing Density lbm/gal	Yield ft3/sack	Mix Fluid Gal	Rate bbl/mi n	Total Mix Fluid Gal
2	HalCem	HALCEM (TM) SYSTEM	65	sack	15.8	1.15			5
4868'-4009'		FRESH WATER							

Fluid #	Stage Type	Fluid Name	Qty	Qty UoM	Mixing Density lbm/gal	Yield ft3/sack	Mix Fluid Gal	Rate bbl/mi n	Total Mix Fluid Gal
3	HalCem	HALCEM (TM) SYSTEM	40	sack	15.8	1.15			5
2526-1997		FRESH WATER							

Fluid #	Stage Type	Fluid Name	Qty	Qty UoM	Mixing Density lbm/gal	Yield ft3/sack	Mix Fluid Gal	Rate bbl/mi n	Total Mix Fluid Gal
4	Mud Flush III (Powder)	Mud Flush III	20	bbl	8.4				
42 gal/bbl		FRESH WATER							

Fluid #	Stage Type	Fluid Name	Qty	Qty UoM	Mixing Density lbm/gal	Yield ft3/sack	Mix Fluid Gal	Rate bbl/mi n	Total Mix Fluid Gal
5	985-0'	HALCEM (TM) SYSTEM	332	sack	15.8	1.15			5
5 Gal		FRESH WATER							

Cement Left In Pipe	Amount	ft	Reason	Shoe Joint
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Comment

## 1.0 Real-Time Job Summary

### 1.1 Job Event Log

Type	Seq. No.	Activity	Graph Label	Date	Time	Source	Comb Pump Rate (bb/min)	DH Density (ppg)	PS Pump Press (psi)	Pump Stg Tot (bb)	Comments
Event	1	Call Out	Call Out	7/28/2018	02:00:00	USER					For on location 0800
Event	2	Depart from Service Center or Other Site	Depart from Service Center or Other Site	7/28/2018	09:15:00	USER					Journey management meeting held prior to departure. Journey called into dispatch.
Event	3	Arrive at Location from Service Center	Arrive at Location from Service Center	7/28/2018	09:30:00	USER					With all equipment, and materials, waiting on rig to run in tubing.  Plug 1-Tubing 2 3/8" 4.7# 6842', CSG 4 1/2" 11.6#, <b>CLBP 6842'</b> , TOC 6495' Plug 2-Tubing 2 3/8" 4.7# 4868', CSG 4 1/2" 11.6#, TOC 4009' Plug 3-Tubing 2 3/8" 4.7# 2526', CSG 4 1/2" 11.6#. TOC 1997'
Event	4	Comment	Comment	7/28/2018	09:30:01	USER					
Event	5	Pre-Rig Up Safety Meeting	Pre-Rig Up Safety Meeting	7/28/2018	09:35:00	USER					JSA to discuss the hazards of rig-up.
Event	6	Rig-Up Completed	Rig-Up Completed	7/28/2018	10:05:00	USER					With no incidents or injuries.
Event	7	Pre-Job Safety Meeting	Pre-Job Safety Meeting	7/28/2018	10:15:00	USER	0.00	8.32	60.00	0.00	With all essential personnel to discuss the job procedure, and hazards of the job.
Event	8	Start Job	Start Job	7/28/2018	10:40:10	COM5	0.00	8.31	1.00	0.00	Start Recording Data.
Event	9	Test Lines	Test Lines	7/28/2018	10:43:31	COM5	0.00	8.24	4.00	3.40	@3099 psi.



# HALLIBURTON

Customer: NOBLE ENERGY INC - EBUS

Job: Noble Energy Harsh H26-10 PTA  
Case: Case 1 | SO#: 905029852

Event 10	Pump Cement	Pump Cement	7/28/2018	10:56:28	COM5	0.00	8.27	4.00	3.40	20 sks (5.38 bbls) @ 15.8# 1.51 ft3/sk, 6.21 gal/sk. Verified with pressurized scales.
Event 11	Pump Displacement	Pump Displacement	7/28/2018	10:59:37	COM5	2.00	15.94	217.00	5.70	25 bbls fresh water to balance.
Event 12	Shutdown	Shutdown	7/28/2018	11:13:26	COM5	0.00	7.78	5.00	20.70	Lay down tubing to 4868'.
Event 13	Pump Spacer 1	Pump Spacer 1	7/28/2018	11:59:43	COM5	0.00	7.94	0.00	0.00	3 bbls fresh water to break circulation.
Event 14	Pump Cement	Pump Cement	7/28/2018	12:10:13	COM5	0.00	7.87	3.00	0.00	65 sks (13.31 bbls) G neat @15.8# 1.15 ft3/sk, 5.00 gal/sk. Verified with pressurized scales.
Event 15	Pump Displacement	Pump Displacement	7/28/2018	12:17:02	COM5	2.00	16.24	17.00	13.40	15.5 bbls fresh water to balance.
Event 16	Shutdown	Shutdown	7/28/2018	12:25:02	COM5	0.00	7.87	3.00	10.30	Lay down tubing to 4868.
Event 17	Pump Spacer 1	Pump Spacer 1	7/28/2018	13:16:19	COM5	0.00	7.93	-5.00	0.00	4 bbls fresh water to balance.
Event 18	Pump Cement	Pump Cement	7/28/2018	13:22:00	COM5	0.00	7.89	-1.00	4.10	40 sks (8.19 bbls) 15.8# 1.15 ft3/sk, 5.00 gal/sk, verified with pressurized scales.
Event 19	Pump Displacement	Pump Displacement	7/28/2018	13:25:43	COM5	0.00	14.54	49.00	8.80	7.5 bbls fresh water to balance.
Event 20	End Job	End Job	7/28/2018	13:37:42	COM5	1.60	8.26	36.00	11.80	End Recording Data
Event 21	Pre-Rig Down Safety Meeting	Pre-Rig Down Safety Meeting	7/28/2018	13:50:00	USER					JSA to discuss the hazards of rig-down.
Event 22	Rig-Down Completed	Rig-Down Completed	7/28/2018	14:00:00	USER					With no incidents or injuries.
Event 23	Depart Location for Service Center or Other Site	Depart Location for Service Center or Other Site	7/28/2018	14:15:00	USER					Journey management meeting held prior to departure, Journey called into dispatch.

iCem Service

(v. 4.5.139)

Created: Saturday, July 28, 2018

## 1.0 Real-Time Job Summary

### 1.1 Job Event Log

Type	Seq. No.	Activity	Graph Label	Date	Time	Source	Comb Pump Rate (bbl/min)	DH Density (ppg)	PS Pump Press (psi)	Pump Stg Tot (bbl)	Comments
Event	1	Call Out	Call Out	7/31/2018	04:00:00	USER					For on location 0800
Event	2	Depart from Service Center or Other Site	Depart from Service Center or Other Site	7/31/2018	07:15:00	USER					Journey management meeting held prior to departure. Journey called into dispatch.
Event	3	Arrive at Location from Service Center	Arrive at Location from Service Center	7/31/2018	07:45:00	USER					With all equipment, and materials, waiting on rig to run in tubing.
Event	4	Comment	Comment	7/31/2018	07:45:01	USER					
Event	5	Pre-Rig Up Safety Meeting	Pre-Rig Up Safety Meeting	7/31/2018	08:15:00	USER					JSA to discuss the hazards of rig-up.
Event	6	Rig-Up Completed	Rig-Up Completed	7/31/2018	08:30:00	USER					With no incidents or injuries.
Event	7	Pre-Job Safety Meeting	Pre-Job Safety Meeting	7/31/2018	08:45:00	USER					With all essential personnel to discuss the job procedure, and hazards of the job.
Event	8	Start Job	Start Job	7/31/2018	09:17:14	USER	0.00	8.25	111.00	2.80	Start Recording Data.
Event	9	Pump Spacer 1	Pump Spacer 1	7/31/2018	09:29:28	COM5	0.00	8.28	95.00	0.00	20 bbls Mud Flush
Event	10	Pump Cement	Pump Cement	7/31/2018	09:41:22	COM5	2.10	8.18	107.00	20.20	318 sks (65 bbls) G neat @ 15.8# 1.15 ft3/sk, 5.00 gal/sk. Verified with pressurized scales.
Event	11	Pump Cement	Pump Cement	7/31/2018	10:45:51	USER	0.00	0.44	-12.00	65.10	14 sks (3 bbls) g neat @ 15.8# 1.15 ft3/sk, 5.00 gal/sk, verified with pressurized scales. to top

# HALLIBURTON

Customer: NOBLE ENERGY INC - EBUS  
 Job: Noble Energy Harsh H26-10 PTA  
 Case: Case 2 | SO#: 905029852

out.

Event	12	End Job	End Job	7/31/2018	10:52:26	COM/5	0.00	16.93	-16.00	65.40	
Event	13	Pre-Rig Down Safety Meeting	Pre-Rig Down Safety Meeting	7/31/2018	11:15:00	USER	5.70	7.89	82.00	112.20	JSA to discuss the hazards of rig-down.
Event	14	Rig-Down Completed	Rig-Down Completed	7/31/2018	11:25:00	USER					With no incidents or injuries.
Event	15	Depart Location for Service Center or Other Site	Depart Location for Service Center or Other Site	7/31/2018	11:30:00	USER					Journey management meeting held prior to departure, Journey called into dispatch.



139330

Rig # R5031

Daily Work Ticket

Report #

<b>Customer Name</b> Noble Energy		<b>Customer AFE #</b> RC #425690761		<b>Date:</b> 7/31/2018
<b>Mailing Address</b>	<b>City</b>	<b>State</b> CO	<b>Zip</b>	<b>County</b> WELD
<b>Field</b>	<b>Lease</b>	<b>Well</b> HARSH H26-10		<b>Order #</b> BWO 17-0068
<b>Work Description</b>	Workover <input type="checkbox"/>	Rod <input type="checkbox"/>	Rod & Tubing <input type="checkbox"/>	Re-entry <input type="checkbox"/>
	Swabbing <input type="checkbox"/>	Tubing <input type="checkbox"/>	Completion <input type="checkbox"/>	P & A <input checked="" type="checkbox"/>

Description	Qty.	Rate Hr/Day/Ea	Total	Workover Equipment	Qty.	Rate Hr/Day/Ea	Total
Riq & Crew	8.00 @	\$275.00	\$2,200.00	BOP	1.00 @	\$300.00	\$300.00
Extra Labor	12.00 @	\$48.00	\$576.00	Pump	1.00 @	\$575.00	\$575.00
Riq Fuel	@			Tank	1.00 @	\$175.00	\$175.00
Pump Fuel	@			Base Beam	1.00 @	\$40.00	\$40.00
Cementina Services	@			Pipe Handler	@		
Extra Cement - Cementina Services	@			Loader	@		
P & A Bidded Cost	@			Pipe Racks	@		
				Power Swivel	@		
				JU/Washington H	@		
				Rod/TBG Tongs	@		
				Adapter Flange	@		
				Catwalk	@		
ReCharge Items	Qty.	Rate Hr/Day/Ea	Total	Swabbing Equipment	Qty.	Rate Hr/Day/Ea	Total
Crew Travel	2.00 @	\$210.00	\$420.00	Swab Cups - Size	@		
Tool Pusher	@			OSR	@		
Per Diem	@			Swabbing Acid	@		
Stripper Rubbers	@			Fishing Tools	@		
Pipe Wipers	1.00 @	\$44.00	\$44.00	Extra Tank	@		
Tong Dies	@			Permits	@		
Slip Dies	@						
Safety Valve	@						
Fishing Tools-Recharge	@						
Pipe Dope	1.00 @	\$36.00	\$36.00				
Handling Equipment	@						
Gas Monitors and Pack	1.00 @	\$35.00	\$35.00				
Description	Qty	Rate	Total	Discount: \$220.05 (5.00%)			
Miscellaneous	@			<b>TOTAL BILLABLE AMOUNT</b> \$4,180.95			

Description of Work Start Time 6:00 AM Stop Time 4:00 PM

"NOBLE ENERGY - SARAH MCDONNELL"

Crew travel. JSA MTG. Check well. Performed Daily Inspection. RIH 32 jts = 985'. RU cementers to pump mud flush and 332 sx of cement from 985' to surface. RD cementers. TOOH lay down the 32 jts on the trailer. Rack up tongs and floor. ND BOP. Cap the well. Jet cleaned the cement tank. PU hard line. RIG down. PU locatin. Pull equipment out to the battery with the cat. Crew travel.

Payroll Section				
Employee	Rev Hours	Travel Hours	Non Rev Hours	Total
Tool Pusher	Rivera, Fausto	0.00	0.00	0.00
Operator	Loma Loma, Javier	8.00	2.00	10.00
Derrick	Casillas, Abraham	8.00	2.00	10.00
FloorHand	Garcia Pacheco, Hugo A	8.00	2.00	10.00
FloorHand	Hernandez Martinez, Carlos	8.00	2.00	10.00

No Unreported Incidents Per My Signature

Ranger Tool Pusher

**noble energy**

**HARSH H26-10**

**Project / Lease Name**  
422129379

**AFE / RC Number**  
247036

**Task**  
Erich Zwaagstra

**Acct Code**  
Oracle 1st Approver

**Approved By**  
S.McDonnell

**Date**  
08/01/2018

Customer/Agent