

The Road to Excellence Starts with Safety

Sold To #: 345242		Ship To #: 2460701		Quote #:		Sales Order #: 0902965091				
Customer: NOBLE ENERGY INC E-BUSINESS				Customer Rep: PETE BURNS						
Well Name: HSR Rawitch			Well #: 5-20			API/UWI #:				
Field:		City (SAP): GILCREST		County/Parish: WELD		State: COLORADO				
Legal Description:										
Contractor: UNKNOWN				Rig/Platform Name/Num: WORKOVER RIG						
Job BOM:										
Well Type: GAS										
Sales Person: HALAMERICA\HB60191				Srcv Supervisor: Joseph Fantasia						
Job										
Form Type				BHST						
Job depth MD		1620ft		Job Depth TVD		1620				
Water Depth				Wk Ht Above Floor		6				
Well Data										
Description	New / Used	Size in	ID in	Weight lbm/ft	Thread	Grade	Top MD ft	Bottom MD ft	Top TVD ft	Bottom TVD ft
Tubing		1.66	1.278	3.02			0	1620		0
Casing		4.5	4	11.6			0	1620		0
Fluid Data										
Stage/Plug #: 1										
Cement Left In Pipe	Amount	ft		Reason			Shoe Joint			
Fluid Data										
Stage/Plug #: 2										
Fluid #	Stage Type	Fluid Name		Qty	Qty UoM	Mixing Density lbm/gal	Yield ft <sup>3</sup> /sack	Mix Fluid Gal	Rate bbl/min	Total Mix Fluid Gal
1	PLUG #1	HALCEM (TM) SYSTEM		400	sack	15.8	1.15	5	1.8	
5 Gal		FRESH WATER								
Cement Left In Pipe	Amount	NA		Reason			NA			
Mix Water: 7		Mix Water Chloride: 0		Mix Water Temperature: 50						
Comment APPROX 6 BBLS CEMENT TO SURFACE										

## 2.0 Real-Time Job Summary

### 2.1 Job Event Log

Type	Seq. No.	Activity	Graph Label	Date	Time	Source	Combined Pump Rate (bbl/min)	Downhole Density (ppg)	Pass-Side Pump Pressure (psi)	Comments
Event	1	Arrive at Location from Service Center	Arrive at Location from Service Center	12/4/2015	09:00:00	USER				ARRIVE AT LOCATION @ 0900. HELD SITE ASSESSMENT AND PRE RIG UP SAFETY MEETING WITH CREW.
Event	2	Start Job	Start Job	12/4/2015	09:45:00	USER				TUBING SET AT 1620'. HELD PRE JOB SAFETY MEETING WITH PRESENT PERSONNEL PRIOR TO STARTING JOB. RIG CIRCULATE WELL 1.5 HRS. 1 BBL/MIN 750 PSI.
Event	3	Other	Other	12/4/2015	10:11:07	COM5	0.50	8.62	106.00	FILL LINES.
Event	4	Test Lines	Test Lines	12/4/2015	10:14:38	COM5	0.00	8.69	3456.00	PRESSURE TEST LINES TO 3000 PSI.
Event	5	Pump Spacer 1	Pump Spacer 1	12/4/2015	10:17:47	COM5	0.00	8.25	22.00	PUMP 5 BBLS WATER WITH 2 LBS RED DYE ADDED.
Event	6	Pump Cement	Pump Cement	12/4/2015	10:23:35	COM5	1.00	15.51	230.00	PUMP 81 BBLS (400 SKS) G CEMENT MIXED AT 15.8 PPG USING SUPPLIED WATER. APPROX 6 BBLS CEMENT TO SURFACE
Event	7	Check Weight	Check weight	12/4/2015	10:30:00	COM5	1.50	15.86	833.00	DENSITY VERIFIED BY SCALE.
Event	8	Pump Displacement	Pump Displacement	12/4/2015	11:10:35	USER	1.70	15.32	1765.00	PUMP 1/2BBL WATER TO CLEAR LINES
Event	9	End Job	End Job	12/4/2015	11:16:36	USER	0.00	-0.41	7.00	HELD PRE RIG DOWN SAFETY MEETING PRIOR TO RIGGING DOWN EQUIPMENT.