

*The Road to Excellence Starts with Safety*

Sold To #: 345242	Ship To #: 345242	Quote #:	Sales Order #: 0905291624
Customer: NOBLE ENERGY INC-EBUS		Customer Rep: Jess Jacobs	
Well Name: Knaub	Well #: 05-12	API/UWI #: 05-123-16464	
Field:	City (SAP): Kersey	County/Parish: Weld	State: COLORADO
Legal Description:			
Contractor:		Rig/Platform Name/Num:	
Job BOM: 7528 7528			
Well Type: OIL & GAS WELL			
Sales Person: HALAMERICA\HB70026		Srvc Supervisor: James Bunnell	
Job			

Formation Name	
Formation Depth (MD)	Top Bottom
Form Type	BHST
Job depth MD	2500ft Job Depth TVD
Water Depth	Wk Ht Above Floor
Perforation Depth (MD)	From To

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		2.375	1.995	4.7			0	6500		
Casing		4.5	4	11.6			0	6980		

### 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/min	Total Mix Fluid Gal
1	HalCem	HALCEM (TM) SYSTEM	35	sack	15.8	1.15			5
5 Gal		FRESH WATER							

\*1039' - 6377'

Fluid #	Stage Type	Fluid Name	Qty	Qty UoM	Mixing Density lbm/gal	Yield ft3/sack	Mix Fluid Gal	Rate bbl/min	Total Mix Fluid Gal
2	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/min	Total Mix Fluid Gal
3	Plug	PLUGCEM (TM) SYSTEM	185	sack	15.8	1.21		2	5.25

94 lbm		CMT - PREMIUM - CLASS G REG OR TYPE V, BULK (100003685)							
5.25 Gal		FRESH WATER							
2500'-1879'									
Fluid #	Stage Type	Fluid Name	Qty	Qty UoM	Mixing Density lbm/gal	Yield ft3/sack	Mix Fluid Gal	Rate bbl/min	Total Mix Fluid Gal
4	Mud Flush III (Powder)	Mud Flush III	10	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/min	Total Mix Fluid Gal
5	Plug	PLUGCEM (TM) SYSTEM	200	sack	15.8	1.25		2	5.42
5.42 Gal		FRESH WATER							
94 lbm		CMT - PREMIUM - CLASS G REG OR TYPE V, BULK (100003685)							
520'-125'									
Fluid #	Stage Type	Fluid Name	Qty	Qty UoM	Mixing Density lbm/gal	Yield ft3/sack	Mix Fluid Gal	Rate bbl/min	Total Mix Fluid Gal
6	HalCem	HALCEM (TM) SYSTEM	53	sack	15.8	1.15			5
5 Gal		FRESH WATER							
125'-5'									