

The Road to Excellence Starts with Safety

Sold To #: 345242	Ship To #: 3654319	Quote #: 0022049681	Sales Order #: 0902415216
Customer: NOBLE ENERGY INC E-BUSINESS		Customer Rep: DEREK	
Well Name: WELLS RANCH	Well #: AA11-646	API/UWI #: 05-123-41251-00	
Field: WATTENBERG	City (SAP): BRIGGS DALE	County/Parish: WELD	State: COLORADO
Legal Description: NE SE-11-6N-63W-1785FSL-215FEL			
Contractor: H & P DRLG		Rig/Platform Name/Num: H & P 326	
Job BOM: 7521			
Well Type: HORIZONTAL OIL			
Sales Person: HALAMERICA/HB45834		Srv Supervisor: Joseph Fantasia	

Job

Formation Name			
Formation Depth (MD)	Top		Bottom
Form Type		BHST	128 degF
Job depth MD	1820ft	Job Depth TVD	
Water Depth		Wk Ht Above Floor	6FT
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
Casing		16	15.376	55			0	110	0	0
Casing		9.625	8.921	36	LTC	J-55	0	1820	0	1800
Open Hole Section			13.5				110	1830	0	0

Tools and Accessories

Type	Size in	Qty	Make	Depth ft	Type	Size in	Qty	Make
Guide Shoe	9.625			1820	Top Plug	9.625		HES
Float Shoe	9.625				Bottom Plug	9.625		HES
Float Collar	9.625				SSR plug set	9.625		HES
Insert Float	9.625				Plug Container	9.625		HES
Stage Tool	9.625				Centralizers	9.625		HES

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/sack	Mix Fluid Gal	Rate bbl/min	Total Mix Fluid Gal	
1	Water	Water	50	bbl	8.34					

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	
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2	SwiftCem B1	SWIFTCEM (TM) SYSTEM	456	sack	13	2.01	11.01	7	11.01
11.01 Gal		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	SwiftCem B1	SWIFTCEM (TM) SYSTEM	100	sack	14.2	1.53	7.63	5	7.63
7.63 Gal		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
4	Water Based Mud-8.5 #/gal	DISPLACEMENT	137	bbl	9.1			5	
Cement Left In Pipe		Amount	44 ft		Reason			Shoe Joint	
Comment APPROX 30BBLS CEMENT TO SURFACE.									