

The Road to Excellence Starts with Safety

Sold To #: 345242	Ship To #: 3557086	Quote #:	Sales Order #: 0901853243
Customer: NOBLE ENERGY INC E-BUSINESS		Customer Rep:	
Well Name: MORTON STATE	Well #: LD01-78-1AHN	API/UWI #: 05-123-39896-00	
Field: WILDCAT	City (SAP): RAYMER	County/Parish: WELD	State: COLORADO
Legal Description: SW SW-1-9N-58W-400FSL-465FWL			
Contractor:		Rig/Platform Name/Num: Precision 828	
Job BOM: 7522			
Well Type: HORIZONTAL OIL			
Sales Person: HALAMERICA\HB21661		Srvc Supervisor:	
Job			

Formation Name			
Formation Depth (MD)	Top		Bottom
Form Type		BHST	225 degF
Job depth MD	5880ft	Job Depth TVD	
Water Depth		Wk Ht Above Floor	5ft
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	0	9.625	8.921	36	BTC	J-55	0	1202	0	
Casing	0	7	6.276	26	BTC	P-110	0	5880	0	0
Open Hole Section			8.75				632	5880		0

Tools and Accessories									
Type	Size in	Qty	Make	Depth ft		Type	Size in	Qty	Make
Guide Shoe	7	1		5880		Top Plug	7	1	HES
Float Shoe	7	1				Bottom Plug	7	1	HES
Float Collar	7	1				SSR plug set	7	1	HES
Insert Float	7	1				Plug Container	7	1	HES
Stage Tool	7	1				Centralizers	7	1	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	11.5 lb/gal Tuned Spacer III	Tuned Spacer III	50	bbl	11.5	3.86		6		
145.50 lbm/bbl		BARITE, BULK (100003681)								
36 gal/bbl		FRESH WATER								
0.50 lbm/bbl		POLY-E-FLAKE (101216940)								

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	Lead Cement	ELASTICEM (TM) SYSTEM	447	sack	13.6	1.88		6	8.57
8.57 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	Displacement	Displacement	223	bbl	8.33				
Cement Left In Pipe		Amount	40 ft		Reason		Shoe Joint		
Comment									

1.6 Job Event Log

Type	Seq. No.	Activity	Graph Label	Date	Time	Source	DS Pump Press (psi)	Comb Pump Rate (bbl/min)	DH Density (ppg)	Comment
Event	1	Call Out	Call Out	11/27/2014	00:00:00	USER				Called out for the Noble Morton State LD01-78-1AHN 7" Intermediate on loc.@ 700
Event	2	Arrive at Shop	Arrive at Shop	11/27/2014	01:00:00	USER				Arrive @ yard load equipment get chemicals
Event	3	Pre-Convoy Safety Meeting	Pre-Convoy Safety Meeting	11/27/2014	05:45:00	USER				Pretrip /gate check use of journey management Discussed route And hazards on road way
Event	4	Crew Leave Yard	Crew Leave Yard	11/27/2014	06:00:00	USER				Crew convoy to location
Event	5	Arrive At Loc	Arrive At Loc	11/27/2014	07:00:00	USER				Talk with coman Tawn Bowman get #s test water & find where to hook up to mud & water and spot equipment
Event	6	Assessment Of Location Safety Meeting	Assessment Of Location Safety Meeting	11/27/2014	07:15:00	USER				Discussed the spotting of equipment and the hazards on loc watch out for the legs for the rig
Event	7	Pre-Rig Up Safety Meeting	Pre-Rig Up Safety Meeting	11/27/2014	07:30:00	USER				Discussed the hazards of rig-up and the v-door
Event	8	Rig-Up Equipment	Rig-Up Equipment	11/27/2014	08:00:00	USER				Rig up Halliburton iron & hoses to rig
Event	9	Start Job	Start Job	11/27/2014	12:29:57	COM6	-2.00	0.00	8.79	Start Job
Event	10	Test Lines	Test Lines	11/27/2014	12:30:03	COM6	-2.00	0.00	8.81	Test kickouts to 500 psi & test lines to 5000 psi
Event	11	Pump Spacer 1	Pump Spacer 1	11/27/2014	12:31:36	COM6	105.00	4.40	8.84	Pump 50 bbls tuned spacer @ 11.5 #
Event	12	Pump Cement	Pump Cement	11/27/2014	12:45:55	COM6	23.00	0.00	11.68	Pump 150 bbl cmt @ 13.6 # 447 sks
Event	13	Pump Displacement	Pump Displacement	11/27/2014	13:18:50	COM6	-3.00	0.00	11.07	Pump 223 bbl WBM displacement

Event	14	Displ Reached Cmnt	Displ Reached Cmnt	11/27/2014	13:27:27	COM6	255.00	6.40	11.30	40 bbls gone Disp reached cmt
Event	15	Bump Plug	Bump Plug	11/27/2014	14:02:15	COM6	2819.00	0.00	8.37	Bump plug @ 223 bbls gone brought presure up to 3000 psi to test csg
Event	16	Test Lines	Test Casing	11/27/2014	14:02:46	COM6	2826.00	0.00	8.30	Test csg to 3000 psi hold for 15 mins
Event	17	Pre-Rig Down Safety Meeting	Pre-Rig Down Safety Meeting	11/27/2014	14:11:23	USER	3220.00	0.00	8.35	Discuss the hazards of rig-down
Event	18	Rig-Down Equipment	Rig-Down Equipment	11/27/2014	14:27:00	USER	-6.00	0.00	9.79	rig-down Halliburton iron & hoses
Event	19	Depart Location Safety Meeting	Depart Location Safety Meeting	11/27/2014	17:00:00	USER				dicuss route & hazards use of journey management
Event	20	Crew Leave Location	Crew Leave Location	11/27/2014	17:25:00	USER				Thank you for choosing Halliburton Rayland & Crew