

The Road to Excellence Starts with Safety

Sold To #: 345242		Ship To #: 3633323		Quote #:		Sales Order #: 0902992250					
Customer: NOBLE ENERGY INC E-BUSINESS				Customer Rep: Gary Stapleton							
Well Name: MOSER			Well #: H34-735		API/UWI #: 05-123-40860-00						
Field: WATTENBERG		City (SAP): HUDSON		County/Parish: WELD		State: COLORADO					
Legal Description: NW NE-27-3N-65W-345FNL-1891FEL											
Contractor: H & P DRLG				Rig/Platform Name/Num: H & P 321							
Job BOM: 7521											
Well Type: HORIZONTAL OIL											
Sales Person: HALAMERICA\HB45834				Srv Supervisor: Vaughn Oteri							
Job											
Formation Name											
Formation Depth (MD)		Top		Bottom							
Form Type				BHST		128 degF					
Job depth MD		1858ft		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	
Casing	3	16	15.376	55			0	130	0	130	
Casing	0	9.625	8.921	36	LTC	J-55	0	1848	0	1848	
Open Hole Section			13.5				130	1858	0	1858	
Tools and Accessories											
Type	Size in	Qty	Make	Depth ft		Type	Size in	Qty	Make		
Guide Shoe	9.625					Top Plug	9.625	1	HES		
Float Shoe	9.625			1848		Bottom Plug	9.625				
Float Collar	9.625			1805		SSR plug set	9.625				
Insert Float	9.625					Plug Container	9.625	1	HES		
Stage Tool	9.625					Centralizers	9.625				
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 with red tracer dye			50	bbl	8.34				

iCem® Service
(v. 4.2.393)

2.0 Real-Time Job Summary

2.1 Job Event Log

Type	Seq. No.	Activity	Graph Label	Date	Time	Source	PS Pump Press (psi)	DH Density (ppg)	PS Pump Rate (bbl/min)	Comments
Event	1	Call Out	Call Out	12/16/2015	23:30:00	USER				Call out from ARC hub
Event	2	Arrive At Loc	Arrive At Loc	12/17/2015	02:00:00	USER				Requested on location @0330. Arrived @0200 met with company rep to discuss job process and concerns. Advised that they had about 2 racks of casing left to run
Event	3	Other	Other	12/17/2015	03:00:00	USER				Water test=pH: _6___, Cl: ___0___, temp ___75___ degrees
Event	4	Other	Other	12/17/2015	03:30:00	USER				TD: 1858___, TP _1848___, SJ: __42.75___, OH: ___13.5___, Casing: Size/Weight/Grade: ___9.625/36#___, Previous Casing Shoe: ___n/a___
Event	5	Start Job	Start Job	12/17/2015	05:35:48	COM4	88.00	0.29	0.00	Held pre-job safety meeting in dog house with all hands on location to discuss job process and hazards. Pre-loaded plug into cement head witnessed by company rep
Event	6	Test Lines	Test Lines	12/17/2015	05:54:52	COM4	31.00	9.35	0.00	Pressure tested pumps and lines found no leaks held for short time due to sub-zero temps
Event	7	Pump Spacer 1	Pump Spacer 1	12/17/2015	05:59:02	COM4	11.00	9.16	0.00	Pumped 40bbl of fresh water, and 10bbl of water with red tracer dye @5.0bpm 140psi
Event	8	Pump Lead Cement	Pump Lead Cement	12/17/2015	06:17:37	COM4	168.00	12.63	5.00	Mixed 550sks or 170bbl of 13.5ppg y1.74 g/sk9.2 @6.0bpm 190psi
Event	9	Pump Tail Cement	Pump Tail Cement	12/17/2015	06:49:05	COM4	89.00	14.46	1.10	Mixed 75sks or 20bbl of 14.2ppg y1.53 g/sk7.65 @6.0bpm 152psi
Event	10	Shutdown	Shutdown	12/17/2015	06:57:59	COM4	40.00	14.40	0.00	
Event	11	Drop Top Plug	Drop Top Plug	12/17/2015	06:59:56	COM4	9.00	14.79	0.00	Released plug witnessed by company rep
Event	12	Pump Displacement	Pump Displacement	12/17/2015	07:00:32	COM4	7.00	14.85	0.00	Pumped 140.8bbl of OBM to displace cement
Event	13	Bump Plug	Bump Plug	12/17/2015	07:32:45	COM4	987.00	9.92	0.00	Bumped plug 500psi over final pump pressure (final 1053)
Event	14	Pressure Up Well	Pressure Up Well	12/17/2015	07:33:47	COM4	1069.00	9.90	0.00	Held pressure for 15min to test casing per Noble policy

Event	15	Other	Other	12/17/2015	07:46:26	COM4	1065.00	9.76	0.00	Released pressure back to pump truck to check floats, 1bbl back; floats held good
Event	16	End Job	End Job	12/17/2015	07:47:11	USER	58.00	9.72	0.00	35bbl of cement back to surface