

The Road to Excellence Starts with Safety

Sold To #: 345242	Ship To #: 2394679	Quote #:	Sales Order #: 0903588445
Customer: NOBLE ENERGY INC E-BUSINESS		Customer Rep:	
Well Name: CECIL FARMS	Well #: 6-14	API/UWI #: 05-123-22328-00	
Field: WATTENBERG	City (SAP): SEVERANCE	County/Parish: WELD	State: COLORADO
Legal Description: SE NE-6-6N-66W-1965FNL-682FEL			
Contractor: UNKNOWN		Rig/Platform Name/Num: WORKOVER RIG	
Job BOM: 7528			
Well Type: VERTICAL GAS			
Sales Person: HALAMERICA\HB61755		Srcv Supervisor:	

Job

Formation Name	
Formation Depth (MD)	Top Bottom
Form Type	BHST
Job depth MD	2502ft 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	2502		0
Casing/ Bridge Plug	3	4.5	4	11.6			0	6982	0	0

Tools and Accessories

Type	Size in	Qty	Make	Depth ft	Type	Size in	Qty	Make
Guide Shoe	2.375			2502	Top Plug	2.375		HES
Float Shoe	2.375				Bottom Plug	2.375		HES
Float Collar	2.375				SSR plug set	2.375		HES
Insert Float	2.375				Plug Container	2.375		HES
Stage Tool	2.375				Centralizers	2.375		HES

Fluid Data

Stage/Plug #: 1										
Fluid #	Stage Type	Fluid Name	Qty	Qty UoM	Mixing Density lbm/gal	Yield ft ³ /sack	Mix Fluid Gal	Rate bbl/min	Total Mix Fluid Gal	
1	Fresh Water Spacer	Fresh Water	1.5	bbl	8.33			2		
Fluid #	Stage Type	Fluid Name	Qty	Qty UoM	Mixing Density lbm/gal	Yield ft ³ /sack	Mix Fluid Gal	Rate bbl/min	Total Mix Fluid Gal	
2	Tail Cement	HALCEM (TM) SYSTEM	20	sack	15.8	1.15	5	2	100	
5 Gal			FRESH WATER							

Fluid #	Stage Type	Fluid Name	Qty	Qty UoM	Mixing Density lbm/gal	Yield ft3/sack	Mix Fluid Gal	Rate bbl/mi n	Total Mix Fluid Gal	
3	Displacement	Displacement	8.5	bbl	8.33			2		
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 ft3/sack	Mix Fluid Gal	Rate bbl/mi n	Total Mix Fluid Gal	
1	Fresh Water Spacer	Fresh Water	3	bbl	8.33			2		
Fluid #	Stage Type	Fluid Name	Qty	Qty UoM	Mixing Density lbm/gal	Yield ft3/sack	Mix Fluid Gal	Rate bbl/mi n	Total Mix Fluid Gal	
2	Lead Cement	HALCEM (TM) SYSTEM	93	sack	15.8	1.15	5	2	465	
5 Gal		FRESH WATER								
Cement Left In Pipe		Amount	0 ft		Reason			Shoe Joint		
Mix Water:		pH 7	Mix Water Chloride:		0 ppm		Mix Water Temperature:			52 °F °C
Cement Temperature:		## °F °C	Plug Displaced by:		## lb/gal kg/m3 XXXX		Disp. Temperature:			## °F °C
Plug Bumped?		Yes/No	Bump Pressure:		#### psi MPa		Floats Held?			Yes/No
Cement Returns:		## bbl m3	Returns Density:		## lb/gal kg/m3		Returns Temperature:			## °F °C
Comment Pumped 1.5 bbls cement to top off well.										

2.0 Real-Time Job Summary

2.1 Job Event Log

Type	Seq. No.	Activity	Graph Label	Date	Time	Source	DH Density (ppg)	Comb Pump Rate (bbl/min)	PS Pump Press (psi)	Comments
Event	1	Call Out	Call Out	10/7/2016	05:00:00	USER				Crew called for an on location of 0900. Crew was Bradley Hinkle, Luke Kosakewich and William Mix.
Event	2	Depart Shop for Location	Depart Shop for Location	10/7/2016	07:00:00	USER				Pre-journey safety meeting prior to departure.
Event	3	Arrive at Location from Service Center	Arrive at Location from Service Center	10/7/2016	08:00:00	USER				Perform a site assessment and pre rig-up safety meeting. Wireline still on location.
Event	4	Other	Check-In With Customer	10/7/2016	10:30:00	USER				Check-in and get numbers once wireline finished their job. Bridge plug set at 6982 feet. 4 bbl (20 sacks) plug to be set at 2502 feet. Second plug to be set at 1009 feet to bring cement to surface. 2.375" 4.7# tubing inside 4.5" 11.6# casing all the way to surface for both stages.
Event	5	Start Job	Start Job	10/7/2016	11:50:24	COM5	8.31	0.00	77.00	Fill lines with 1 bbl of water.
Event	6	Test Lines	Test Lines	10/7/2016	11:52:25	COM5	8.32	0.00	77.00	Pressure test lines. 500 PSI EKO test, followed by 3000 PSI pressure test.
Event	7	Pump Spacer 1	Pump Spacer 1	10/7/2016	11:58:51	COM5	8.29	0.20	-1.00	Pump 1.5 bbls fresh water to establish good circulation.
Event	8	Pump Cement	Pump Cement	10/7/2016	12:07:58	COM5	8.26	0.00	-3.00	Pump 4 bbls (20 sacks) G-

HALLIBURTON

Customer: NOBLE ENERGY INC
 Job: NOBLE Cecil Farms #4-16 P&A
 Case: Case 1

Neat cement mixed at 15.8 ppg. Density verified by pressurized scales.

Pump 8 blis fresh water until pressure observed. Shutdown and opened release line to verify plug was balanced. Approximately 260 foot plug. Top of cement plug approximately 2242 feet.

Shutdown and let rig pull tubing up to 1009 feet, instructed to pull slow (30-50 feet per minute) for the first 300 feet to not disturb plug.

Pump 3 blis fresh water to establish good circulation.

Shutdown to weigh up cement.

Pump 19 blis (93 sacks) G-Neat mixed at 15.8 ppg. Density verified by pressurized scales.

Shutdown pumping cement when good cement observed at surface. Rig crew pulled all tubing out and rigged down the floor.

Pump 1.5 blis G-Neat cement mixed at 15.8 ppg to top off well.

Pre rig-down safety meeting with HES personnel.

Pre-Journey safety meeting

Event 9	Pump Displacement	Pump Displacement	10/7/2016	12:10:46	COM5	13:32	2.10	5.00	
Event 10	Shutdown	Shutdown	10/7/2016	12:14:24	USER	8:39	2.10	-4.00	
Event 11	Pump Spacer 1	Pump Spacer 1	10/7/2016	12:50:29	COM5	0:10	1.10	-11.00	
Event 12	Shutdown	Shutdown	10/7/2016	12:52:11	COM5	8:34	0:00	52.00	
Event 13	Pump Cement	Pump Cement	10/7/2016	13:01:24	COM5	8:34	0:00	-12.00	
Event 14	Shutdown	Shutdown	10/7/2016	13:10:37	COM5	15:74	0:00	138.00	
Event 15	Pump Cement	Pump Cement	10/7/2016	14:10:29	COM5	16:58	0:00	-41.00	
Event 16	Pre-Rig Down Safety Meeting	Pre-Rig Down Safety Meeting	10/7/2016	14:30:00	USER				
Event 17	Depart Location for	Depart Location for	10/7/2016	15:30:00	USER				

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(V. 4.2.393)

Created: Friday, October 07, 2016