

Sold To #: 300466		Ship To #: 3746622		Quote #: 0022298623		Sales Order #: 0903995672				
Customer: ANADARKO PETROLEUM CORP-EBUS				Customer Rep: Pete Aytte						
Well Name: CAMENISCH			Well #: 4N-35HZ		API/UWI #: 05-123-43340-00					
Field: WATTENBERG		City (SAP): EATON		County/Parish: WELD		State: COLORADO				
Legal Description: SW SW-2-1N-67W-425FSL-809FWL										
Contractor: NABORS DRLG				Rig/Platform Name/Num: NABORS X22						
Job BOM: 7523 7523										
Well Type: HORIZONTAL OIL										
Sales Person: HALAMERICA\HX41066				Srcv Supervisor: Vaughn Oteri						
Job										
Formation Name										
Formation Depth (MD)		Top		Bottom						
Form Type				BHST						
Job depth MD		13946ft		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		9.625	8.921	36		J-55	0	1856	0	1856
Casing		5.5	4.892	17	LTC	HCP110	0	13936	0	7478
Open Hole Section			8.5				1856	13946	1856	7478
Tools and Accessories										
Type	Size in	Qty	Make	Depth ft		Type	Size in	Qty	Make	
Guide Shoe	5.5					Top Plug	5.5	1	Weatherford	
Float Shoe	5.5			13936		Bottom Plug	5.5			
Float Collar	5.5			13845		SSR plug set	5.5			
Insert Float	5.5					Plug Container	5.5	1	HES	
Stage Tool	5.5					Centralizers	5.5			
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	Tuned Spacer III	Tuned Spacer III	80	bbl	10.5	6.25		4		
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	ElastiCem - Cap Cement	ELASTICEM (TM) SYSTEM	150	sack	13.2	1.57		5	7.51
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	ElastiCem	ELASTICEM (TM) SYSTEM	545	sack	13.2	1.57		5	7.53
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	EconoCem	ECONOCEM (TM) SYSTEM	1140	sack	13.5	1.68		7	7.98
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	Biocide Water and MMCR	Biocide Water and MMCR	10	bbl	8.34			7	
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	Biocide Water	Biocide Water	311	bbl	8.34			7	
Cement Left In Pipe		Amount	ft		Reason			Shoe Joint	
Comment 45bbbls of Spacer back to surface. HOTC 8360.22, TOTC 5575.78, HOLC 3735.04, TOLC 1840, HOCC 876.82, TOCC 963.18									

## 2.0 Real-Time Job Summary

### 2.1 Job Event Log

Type	Seq. No.	Activity	Graph Label	Date	Time	Source	DS Pump Press (psi)	DH Density (ppg)	Comb Pump Rate (bbl/min)	Comments
Event	1	Call Out	Call Out	4/28/2017	17:00:00	USER				Call out by ARS Hub
Event	2	Arrive At Loc	Arrive At Loc	4/28/2017	21:00:00	USER				Arrive on location meet with Co Rep to discuss job process and concerns, advised rig was taken loses while drilling
Event	3	Other	Other	4/28/2017	21:01:00	USER				TD 13946, TP 13936, FC 13845, Surface 1855, Mud 9.1ppg, HOTC 8360.22, TOTC 5575.78, HOLC 3735.04, TOLC 1840, HOCC 876.82, TOCC 963.18,
Event	4	Start Job	Start Job	4/29/2017	03:07:17	COM4	286.00	8.43	8.80	Held pre job safety meeting with all hands to discuss job process and hazards
Event	5	Test Lines	Test Lines	4/29/2017	03:26:02	COM4	104.00	8.38	0.00	Pressure test pump and lines with fresh water 4768psi
Event	6	Pump Spacer 1	Pump Spacer 1	4/29/2017	03:32:46	COM4	100.00	8.34	0.00	Mixed 80bbls of Tuned Spacer III at 10.5ppg, 4bpm at 219psi,
Event	7	Pump Lead Cement	Pump Lead Cement	4/29/2017	04:06:09	COM4	47.00	11.40	3.60	Mixed 695sks or 194bbls of 13.2ppg Y-1.57, g/sks 7.51 of Elasticem at 5bpm 275psi
Event	8	Pump Tail Cement	Pump Tail Cement	4/29/2017	04:50:11	COM4	421.00	13.34	5.60	Mixed 1140sks or 341bbls of 13.5ppg, Y-1.68, g/sk 7.98 of EconoCem at 7bpm 528psi
Event	9	Shutdown	Shutdown	4/29/2017	05:41:10	COM4	69.00	6.48	0.80	

Event	10	Clean Lines	Clean Lines	4/29/2017	05:41:13	COM4	56.00	2.20	0.80	Wash pump and lines with fresh water
Event	11	Drop Top Plug	Drop Top Plug	4/29/2017	05:41:17	COM4	42.00	0.82	0.80	Release plug witnessed by Co Rep
Event	12	Pump Displacement	Pump Displacement	4/29/2017	05:53:44	COM4	-13.00	8.33	0.00	Pumped 321bbbls of fresh water to displace cement
Event	13	Bump Plug	Bump Plug	4/29/2017	06:45:43	COM4	2783.00	8.42	0.00	Bumped plug at 500psi over final pump pressure, Held 3000psi for 15min
Event	14	Other	Other	4/29/2017	07:00:33	COM4	3134.00	8.40	0.00	Release pressure back to pump truck to check float, float held good, 3.5bbbls back
Event	15	End Job	End Job	4/29/2017	07:04:13	COM4	-13.00	8.33	0.90	45bbbls of Spacer back to surface

## 3.0 Attachments

### 3.1 Anadarko Camenisch 4N-35HZ Production Job Chart.png

