

Sold To #: 300466		Ship To #: 3747432		Quote #: 0022300664		Sales Order #: 0904008648				
Customer: ANADARKO PETROLEUM CORP-EBUS				Customer Rep: Ruben Hernandez						
Well Name: CAMENISCH		Well #: 29C-35HZ		API/UWI #: 05-123-43338-00						
Field: WATTENBERG		City (SAP): IONE		County/Parish: WELD		State: COLORADO				
Legal Description: SW SW-2-1N-67W-425FSL-824FWL										
Contractor: NABORS DRLG				Rig/Platform Name/Num: NABORS X22						
Job BOM: 7523 7523										
Well Type: HORIZONTAL GAS										
Sales Person: HALAMERICA\HX41066				Srv Supervisor: Nathaniel Moore						
Job										
Formation Name										
Formation Depth (MD)		Top		Bottom						
Form Type				BHST						
Job depth MD		14195ft		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	1858	0	1858
Casing		5.5	4.892	17	LTC	HCP110	0	14187	0	7678
Open Hole Section			8.5				1858	14195	1859	7678
Tools and Accessories										
Type	Size in	Qty	Make	Depth ft		Type	Size in	Qty	Make	
Guide Shoe	5.5					Top Plug	5.5	1		
Float Shoe	5.5			14187		Bottom Plug	5.5		HES	
Float Collar	5.5			14095		SSR plug set	5.5		HES	
Insert Float	5.5					Plug Container	5.5		HES	
Stage Tool	5.5					Centralizers	5.5		HES	
Fluid Data										
Stage/Plug #: 1										
Fluid #	Stage Type	Fluid Name	Qty	Qty UoM	Mixing Density lbm/gal	Yield ft/sack	Mix Fluid Gal	Rate bbl/min	Total Mix Fluid Gal	
1	Tuned Spacer III	Tuned Spacer III	80	bbl	10.5	6.25				
88.91 lbm/bbl		BARITE, BULK (100003681)								
36.10 gal/bbl		FRESH WATER								
0.50 gal/bbl		DUAL SPACER SURFACTANT B, 5 GAL PAIL (100003665)								
0.25 gal/bbl		D-AIR 3000L, 5 GAL PAIL (101007444)								

0.3750 lbm/bbl		TUF FIBER 594, 15 LB BOX (101350514)							
0.50 gal/bbl		MUSOL A, 330 GAL TOTE - (790828)							
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		6	7.51
7.51 Gal		FRESH WATER							
0.90 %		SCR-100 (100003749)							
0.10 lbm		TUF FIBER 594, 15 LB BOX (101350514)							
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	1.571		6	7.53
0.40 %		SCR-100 (100003749)							
7.53 Gal		FRESH WATER							
0.10 %		SUPER CBL, 50 LB PAIL (100003668)							
0.10 lbm		TUF FIBER 594, 15 LB BOX (101350514)							
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	1180	sack	13.5	1.68		6	7.98
7.98 Gal		FRESH WATER							
0.40 %		HR-5, 50 LB SK (100005050)							
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	20	bbl	8.34				
0.50 gal/bbl		100 lbsl sugar							
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	327	bbl	8.34				
Cement Left In Pipe		Amount	ft		Reason			Shoe Joint	

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	5/3/2017	15:00:00	USER				OL time 2100. Verify equipment and materials
Event	2	Assessment Of Location Safety Meeting	Assessment Of Location Safety Meeting	5/3/2017	19:30:00	USER				Sign in with customer. Spot in and rig up equipment. TD 14195' 8.5" hole. TP 14187' 5.5" 17# P-110. Float collar 14095'. Surface 1858' 8.625" 36# J-55. MW 9.1 ppg PV 22 YP 10. TVD 7678'. Water tested PH 7 Chlorides <100 Sulfates <200 Temp 50 degrees.
Event	3	Other	Casing on bottom	5/3/2017	22:00:00	USER				Casing on bottom. Rig up plug container for rig to circulate 2 bottoms up. Load top plug.
Event	4	Pre-Job Safety Meeting	Pre-Job Safety Meeting	5/4/2017	00:30:00	USER	-2.00	8.49	0.00	Discuss job procedure with HES and rig crew
Event	5	Start Job	Start Job	5/4/2017	01:08:42	COM1	-3.00	8.51	0.00	Fill lines 3 bbl water
Event	6	Test Lines	Test Lines	5/4/2017	01:24:07	COM1	5069.00	8.81	0.00	500 psi kickout test and 5000 psi pressure test
Event	7	Pump Spacer 1	Pump Spacer 1	5/4/2017	01:27:17	COM1	14.00	8.61	0.00	80 bbl tuned spacer 10.5 ppg 6.25 ft3/sk 40.6 gal/sk with Surfactants and 2 boxes tuff fibre
Event	8	Pump Cap Cement	Pump Cap Cement	5/4/2017	01:46:00	USER	227.00	10.82	4.20	150 sks/42 bbl cap cement 13.2 ppg 1.57 ft3/sk 7.53 gal/sk with 1 box tuff fibre
Event	9	Pump Lead Cement	Pump Lead Cement	5/4/2017	01:56:00	COM1	412.00	13.32	7.00	545 sks/152 bbl lead

										cement 13.2 ppg 1.57 ft3/sk 7.53 gal/sk with 3 boxes tuff fibre
Event	10	Check Weight	Check weight	5/4/2017	01:57:28	COM1	390.00	13.27	7.00	13.2 ppg verified with pressurized scales
Event	11	Pump Tail Cement	Pump Tail Cement	5/4/2017	02:19:51	COM1	240.00	13.03	5.00	1180 sks/353 bbl tail 13.5 ppg 1.68 ft3/sk 7.98 gal/sk
Event	12	Check Weight	Check weight	5/4/2017	02:23:02	COM1	602.00	13.41	7.00	13.5 ppg
Event	13	Check Weight	Check weight	5/4/2017	02:48:05	COM1	667.00	13.39	7.00	13.5 ppg
Event	14	Shutdown	Shutdown	5/4/2017	03:14:41	COM1	99.00	13.53	0.00	Wash pumps and lines/blow down with rig air
Event	15	Drop Top Plug	Drop Top Plug	5/4/2017	03:28:00	USER	-3.00	0.42	0.00	Witnessed by company rep
Event	16	Pump Displacement	Pump Displacement	5/4/2017	03:29:13	COM1	-1.00	8.06	0.00	327 bbl water displacement with sugar in first 20 bbl and biocide throughout
Event	17	Other	Spacer to surface	5/4/2017	04:14:21	COM1	2560.00	8.11	6.10	290 bbl into displacment. 40 bbl spacer back
Event	18	Bump Plug	Bump Plug	5/4/2017	04:23:40	COM1	3040.00	8.15	0.00	2350 psi final circulating pressure. Pressured up to 3100 psi for 10 minute casing test
Event	19	Other	Check floats	5/4/2017	04:34:00	USER	3319.00	8.15	0.00	3.5 bbl back. Floats held
Event	20	Pre-Rig Down Safety Meeting	Pre-Rig Down Safety Meeting	5/4/2017	04:40:00	USER	37.00	8.12	3.00	
Event	21	End Job	End Job	5/4/2017	04:44:27	COM1				
Event	22	Depart Location Safety Meeting	Depart Location Safety Meeting	5/4/2017	06:00:00	USER				

3.0 Attachments

3.1 Anadarko Camenisch 29C-35HZ Production Job Chart

