

The Road to Excellence Starts with Safety

Sold To #: 300466		Ship To #: 3837841		Quote #: 0022411329		Sales Order #: 0904669893				
Customer: ANADARKO PETROLEUM CORP-EBUS				Customer Rep:						
Well Name: HERGENREDER			Well #: 32N-4HZ		API/UWI #: 05-123-45861-00					
Field: WATTENBERG		City (SAP): LONGMONT		County/Parish: WELD		State: COLORADO				
Legal Description: NW NW-33-3N-68W-232FNL-987FWL										
Contractor: Xtreme				Rig/Platform Name/Num: Xtreme 24						
Job BOM: 7523 7523										
Well Type: HORIZONTAL GAS										
Sales Person: HALAMERICA\HX41066				Srv Supervisor: Nicholas Roles						
Job										
Formation Name										
Formation Depth (MD)		Top		Bottom						
Form Type				BHST						
Job depth MD		13879ft		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	2284	0	2284
Casing		5.5	4.892	17	LTC	HCP110	0	13879	0	7217
Open Hole Section			8.5				2284	13889	2284	7217
Tools and Accessories										
Type	Size in	Qty	Make	Depth ft		Type	Size in	Qty	Make	
Guide Shoe	5.5			13879		Top Plug	5.5		HES	
WS Sub	5.5			13869		Bottom Plug	5.5		HES	
Float Collar	5.5					SSR plug set	5.5		HES	
Insert Float	5.5					Plug Container	5.5	1	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 ft3/sack	Mix Fluid Gal	Rate bbl/min	Total Mix Fluid Gal	
1	Tuned Spacer III	Tuned Spacer III	60	bbl	10.5	6.32		4		
37.58 gal/bbl		FRESH WATER								
0.70 gal/bbl		DUAL SPACER SURFACTANT B, 5 GAL PAIL (100003665)								
0.70 gal/bbl		MUSOL A, 330 GAL TOTE - (790828)								

87.97 lbm/bbl		BARITE, BULK (100003681)							
0.50 gal/bbl		D-AIR 3000L, 5 GAL PAIL (101007444)							
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	ELASTICEM (TM) SYSTEM	700	sack	13.2	1.57		8	7.53
0.10 %		SUPER CBL, 50 LB PAIL (100003668)							
0.45 %		SCR-100 (100003749)							
7.53 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	EconoCem	ECONOCEM (TM) SYSTEM	1130	sack	13.5	1.68		8	7.99
8 Gal		FRESH WATER							
0.32 %		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
4	Biocide Water and MMCR	Biocide Water and MMCR	20	bbl	8.34			6	
0.50 gal/bbl		MICRO MATRIX CEMENT RETARDER, 5 GAL PAIL (100003781)							
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	Biocide Water	302	bbl	8.34			6	
Cement Left In Pipe		Amount	0 ft		Reason			Wet Shoe	
Comment Got 15bbls spacer back to pits. Estimated TOT-5594', TOL#1-1010'									

2.0 Real-Time Job Summary

2.1 Job Event Log

Type	Seq. No.	Activity	Graph Label	Date	Time	Source	Comments
Event	1	Call Out	Call Out	2/27/2018	18:00:00	USER	Called out by Service Coordinator for O/L at 0000
Event	2	Depart Yard Safety Meeting	Depart Yard Safety Meeting	2/27/2018	22:00:00	USER	Held meeting with all personnel in convoy to discuss directions and hazards associated with drive, all fit to drive.
Event	3	Depart from Service Center or Other Site	Depart from Service Center or Other Site	2/27/2018	22:15:00	USER	Journey Management prior to departure
Event	4	Arrive at Location from Service Center	Arrive at Location from Service Center	2/27/2018	23:00:00	USER	Upon arrival met with company man to discuss job details and calculations, performed hazard hunt and site assessment.
Event	5	Pre-Rig Up Safety Meeting	Pre-Rig Up Safety Meeting	2/27/2018	23:15:00	USER	Discussed rigging up hazards and procedure according to HMS.
Event	6	Other	Other	2/27/2018	23:30:00	USER	Water test- PH-6, Chlor-0, Temp-85.
Event	7	Safety Meeting - Pre Job	Safety Meeting - Pre Job	2/28/2018	02:30:00	USER	Held safety meeting with all job associated personnel to discuss job procedure, hazards and stop work authority.
Event	8	Start Job	Start Job	2/28/2018	03:07:21	COM4	TD-13889', TP-13879' 5.5" 17#, WS Sub-13869', TVD-7217', OH-8.5", SURF-2284' 9.625" 36#, MUD-9#
Event	9	Test Lines	Test Lines	2/28/2018	03:09:42	COM4	Pumped 5bbls fresh water to fill lines, shutdown, closed manifold, performed 500psi k/o function test, continued with 5th gear stall at 1480psi, proceeded to bring pressure to 6000psi. Pressure stabilized and held with no leaks.
Event	10	Pump Spacer 1	Pump Spacer 1	2/28/2018	03:16:04	COM4	Pumped 60bbls of 10.5# 6.25Y 40.2g/s Tuned Spacer III with 40g Musol A, 40g Dual Spacer B, 20g D-Air at 4bpm 350psi.
Event	11	Drop Bottom Plug	Drop Bottom Plug	2/28/2018	03:32:23	COM4	Dropped by HES supervisor, witnessed by

							company man.
Event	12	Pump Lead Cement	Pump Lead Cement	2/28/2018	03:34:10	COM4	Pumped 700sk or 196bbls of 13.2# 1.57y 7.53g/s Elasticem at 8bpm 430psi.
Event	13	Check Weight	Check Weight	2/28/2018	03:35:58	COM4	Weight verified with pressurized mud scales.
Event	14	Check Weight	Check Weight	2/28/2018	03:48:59	COM4	Weight verified with pressurized mud scales.
Event	15	Pump Tail Cement	Pump Tail Cement	2/28/2018	04:01:16	COM4	Pumped 1130sk or 338bbls of 13.5# 1.68Y 7.99G/S Econocem at 8bpm 505psi.
Event	16	Check Weight	Check Weight	2/28/2018	04:04:58	COM4	Weight verified with pressurized mud scales.
Event	17	Shutdown	Shutdown	2/28/2018	04:45:56	COM4	Shutdown, rig blew down iron with air, followed with 5bbls fresh water through pumps and lines.
Event	18	Drop Top Plug	Drop Top Plug	2/28/2018	04:53:07	COM4	Dropped by HES supervisor, witnessed by company man.
Event	19	Pump Displacement	Pump Displacement	2/28/2018	04:53:24	COM4	Pumped 322bbls fresh water with 10g MMCR in first 20bbls, followed with 5g biocide throughout at 6bpm.
Event	20	Bump Plug	Bump Plug	2/28/2018	05:49:36	COM4	Slowed down at 300bbls away to 3bpm, Final Circulating Pressure-2300psi, Bump Pressure-3000psi.
Event	21	Other	Other	2/28/2018	05:50:18	COM4	Held at 3000psi for 15min casing test.
Event	22	Check Floats	Check Floats	2/28/2018	06:05:18	USER	Released pressure and got 3.5bbls back to truck.
Event	23	Other	Other	2/28/2018	06:06:10	COM4	
Event	24	End Job	End Job	2/28/2018	06:11:59	COM4	
Event	25	Pre-Rig Down Safety Meeting	Pre-Rig Down Safety Meeting	2/28/2018	06:15:00	USER	Discussed rigging down hazards and procedure according to HMS.
Event	26	Depart Location Safety Meeting	Depart Location Safety Meeting	2/28/2018	07:45:00	USER	Held meeting with all personnel in convoy to discuss directions and hazards associated

							with drive, all fit to drive.
Event	27	Depart Location for Service Center or Other Site	Depart Location for Service Center or Other Site	2/28/2018	08:00:00	USER	Pre journey management prior to departure.

3.0 Attachments

3.1 Job Chart

