

The Road to Excellence Starts with Safety

Sold To #: 300466		Ship To #: 3751910		Quote #: 0022370228		Sales Order #: 0904413917					
Customer: ANADARKO PETROLEUM CORP-EBUS				Customer Rep: Josh							
Well Name: WAGNER			Well #: 28N-W10HZ			API/UWI #: 05-123-43472-00					
Field: WATTENBERG		City (SAP): IONE		County/Parish: WELD		State: COLORADO					
Legal Description: SW NE-22-1N-67W-1722FNL-1619FEL											
Contractor: PRECISION DRLG				Rig/Platform Name/Num: PRECISION 464							
Job BOM: 7522 7522											
Well Type: HORIZONTAL GAS											
Sales Person: HALAMERICA\HX41066				Srvc Supervisor: Aaron Smith							
Job											
Formation Name											
Formation Depth (MD)		Top		Bottom							
Form Type				BHST							
Job depth MD		5984ft		Job Depth TVD							
Water Depth				Wk Ht Above Floor		7					
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	1870	0	1870	
Casing		7	6.276	26	LTC	HCP110	0	5975	0	0	
Open Hole Section			8.5				1870	5984		0	
Tools and Accessories											
Type	Size in	Qty	Make	Depth ft		Type	Size in	Qty	Make		
Guide Shoe	7					Top Plug	7	1	WFM		
Float Shoe	7	1	WCS	5975		Bottom Plug	7	1	WFM		
Float Collar	7	1	WCS	5932		SSR plug set	7		HES		
Insert Float	7					Plug Container	7	1	HES		
Stage Tool	7					Centralizers	7		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			40	bbl	10.5	6.25			

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	560	sack	13.2	1.57		6	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
3	Displacement Fluid	Displacement Fluid	228	bbl	9				
Cement Left In Pipe		Amount	43 ft		Reason			Shoe Joint	
Comment 8 bbls cement to surface.									

2.0 Real-Time Job Summary

2.1 Job Event Log

Type	Seq. No.	Activity	Graph Label	Date	Time	Source	Comb Pump Rate (bbl/min)	DH Density (ppg)	PS Pump Press (psi)	Comments
Event	1	Call Out	Call Out	11/3/2017	04:30:00	USER				For on location @ 0730.
Event	2	Depart Yard Safety Meeting	Depart Yard Safety Meeting	11/3/2017	06:45:00	USER				Journey management meeting held prior to departure.
Event	3	Depart from Service Center or Other Site	Depart from Service Center or Other Site	11/3/2017	07:15:00	USER				Journey called into dispatch.
Event	4	Arrive at Location from Service Center	Arrive at Location from Service Center	11/3/2017	07:30:00	USER				With all equipment and materials, rig circulating on bottom.
Event	5	Rig-Up Equipment	Rig-Up Equipment	11/3/2017	07:35:00	USER				Rig-up all surface lines and equipment.
Event	6	Rig-Up Completed	Rig-Up Completed	11/3/2017	08:10:00	USER				With no incidents or injuries.
Event	7	Pre-Job Safety Meeting	Pre-Job Safety Meeting	11/3/2017	08:35:00	USER	0.50	8.53	15.00	
Event	8	Start Job	Start Job	11/3/2017	08:56:09	COM5	0.60	8.51	14.00	With water supplied from frac tank, water tested good to mix cement. PH 7, Cl 88 ppm, Temp 55.
Event	9	Test Lines	Test Lines	11/3/2017	09:11:43	COM5	0.00	8.83	30.00	@ 4000 psi.
Event	10	Pump Spacer 1	Pump Spacer 1	11/3/2017	09:15:57	COM5	0.00	8.76	35.00	40 bbls Tuned Spacer @ 10.5 ppg, 6.25 ft3/sk, 40.2 gal/sk. Verified with pressurized scales. 3.4 BPM 250 psi.
Event	11	Drop Bottom Plug	Drop Bottom Plug	11/3/2017	09:27:12	COM5	1.90	10.31	60.00	Pre-loaded WFM bottom plug in plug container, verified by customer rep.

Event	12	Pump Cement	Pump Cement	11/3/2017	09:30:49	COM5	5.10	10.95	86.00	560 sks (156.59 bbls) Elasticem @ 13.2 ppg, 1.57 ft3/sk, 7.53 gal/sk. Verified with pressurized scales. 6 BPM 200 psi.
Event	13	Shutdown	Shutdown	11/3/2017	10:03:13	COM5	0.00	13.27	25.00	
Event	14	Drop Plug	Drop Plug	11/3/2017	10:04:03	COM5	0.00	14.07	9.00	Pre-loaded WFM Top plug in plug container, verified with pressurized scales.
Event	15	Pump Displacement	Pump Displacement	11/3/2017	10:05:35	COM5	0.30	12.47	31.00	228 bbls OBM.
Event	16	Other	Spacer Returns to Surface	11/3/2017	10:43:28	COM5	4.60	9.13	1698.00	@180 bbls displacement 40 bbls to surface
Event	17	Other	Other	11/3/2017	10:55:12	COM5	3.00	9.07	2028.00	@ 220 bbls displacement 8 bbls to surface.
Event	18	Bump Plug	Bump Plug	11/3/2017	10:57:58	COM5	0.00	9.08	2311.00	@ 500 psi over, final circulating pressure 1730 psi.
Event	19	Check Floats	Check Floats	11/3/2017	11:02:55	USER	0.00	9.00	2261.00	2.5 bbls back, Floats good.
Event	20	Other	Other	11/3/2017	11:06:43	COM5	0.00	9.02	3070.00	Casing test @ 3000 psi for 15 minutes.
Event	21	Check Floats	Check Floats	11/3/2017	11:27:52	USER	0.00	8.85	46.00	3 bbls back, floats good.
Event	22	End Job	End Job	11/3/2017	11:28:00	COM5	0.00	8.85	21.00	End Recording Data.
Event	23	Rig-Down Equipment	Rig-Down Equipment	11/3/2017	11:45:00	USER	2.10	-0.17	5.00	Rig-down all Surface lines and equipment.
Event	24	Rig-Down Completed	Rig-Down Completed	11/3/2017	12:15:00	USER				With no incidents or injuries.
Event	25	Depart Location Safety Meeting	Depart Location Safety Meeting	11/3/2017	12:20:00	USER				Journey management meeting held prior to departure, Journey called into dispatch.
Event	26	Depart Location for Service Center or Other	Depart Location for Service Center or Other	11/3/2017	12:30:00	USER				Thank you for choosing Halliburton Cementing,

3.0 Job Chart

3.1 Job Chart

