

*The Road to Excellence Starts with Safety*

<b>Sold To #:</b> 300466		<b>Ship To #:</b> 3751862		<b>Quote #:</b> 0022373198		<b>Sales Order #:</b> 0904432960					
<b>Customer:</b> ANADARKO PETROLEUM CORP-EBUS				<b>Customer Rep:</b> Luke Rains							
<b>Well Name:</b> WAGNER			<b>Well #:</b> 28N-E10HZ		<b>API/UWI #:</b> 05-123-43469-00						
<b>Field:</b> WATTENBERG		<b>City (SAP):</b> IONE		<b>County/Parish:</b> WELD		<b>State:</b> COLORADO					
<b>Legal Description:</b> SW NE-22-1N-67W-1722FNL-1604FEL											
<b>Contractor:</b> PRECISION DRLG				<b>Rig/Platform Name/Num:</b> PRECISION 464							
<b>Job BOM:</b> 7525 7525											
<b>Well Type:</b> HORIZONTAL GAS											
<b>Sales Person:</b> HALAMERICA\HX41066				<b>Srv Supervisor:</b> Luke Kosakewich							
<b>Job</b>											
<b>Formation Name</b>											
<b>Formation Depth (MD)</b>		<b>Top</b>				<b>Bottom</b>					
<b>Form Type</b>						<b>BHST</b>					
<b>Job depth MD</b>		15700ft		<b>Job Depth TVD</b>		7424ft					
<b>Water Depth</b>				<b>Wk Ht Above Floor</b>							
<b>Perforation Depth (MD)</b>		<b>From</b>				<b>To</b>					
<b>Well Data</b>											
<b>Description</b>	<b>New / Used</b>	<b>Size in</b>	<b>ID in</b>	<b>Weight lbm/ft</b>	<b>Thread</b>	<b>Grade</b>	<b>Top MD ft</b>	<b>Bottom MD ft</b>	<b>Top TVD ft</b>	<b>Bottom TVD ft</b>	
Drill Pipe		4	3.34	14			0	5770	0	5770	
Casing		7	6.276	26	LTC	HCP110	0	5970	0	5970	
Casing		4.5	4	11.6	LTC	HCP110	5770	15695	5770	7424	
Open Hole Section			6.125				5970	15700	5970	7424	
<b>Tools and Accessories</b>											
<b>Type</b>	<b>Size in</b>	<b>Qty</b>	<b>Make</b>	<b>Depth ft</b>		<b>Type</b>	<b>Size in</b>	<b>Qty</b>	<b>Make</b>		
<b>Guide Shoe</b>						<b>Top Plug</b>	4.5	1	Weatherford		
<b>Float Shoe</b>	4.5			15695		<b>Bottom Plug</b>					
<b>Float Collar</b>	4.5			15645		<b>SSR plug set</b>					
<b>Insert Float</b>						<b>Plug Container</b>					
<b>Stage Tool</b>						<b>Centralizers</b>					
<b>Fluid Data</b>											
<b>Stage/Plug #: 1</b>											
<b>Fluid #</b>	<b>Stage Type</b>	<b>Fluid Name</b>			<b>Qty</b>	<b>Qty UoM</b>	<b>Mixing Density lbm/gal</b>	<b>Yield ft3/sack</b>	<b>Mix Fluid Gal</b>	<b>Rate bbl/min</b>	<b>Total Mix Fluid Gal</b>
1	Tuned Spacer III	Tuned Spacer III			60	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	EconoCem	ECONOCHEM (TM) SYSTEM	590	sack	13.5	1.68		6	7.97
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	209.2	bbl	8.34			5	
Cement Left In Pipe		Amount	50 ft		Reason			Shoe Joint	
Comment Full returns throughout the job.Got 58 bbls. of spacer to surface Estimated TOC is 5,878'. Floats held. Got 2 bbls. of fluid back to the truck.									

## 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)	DS Pump Press (psi)	DH Density (ppg)	Comments
Event	1	Call Out	Call Out	11/16/2017	21:00:00	USER				Crew was called out at 21:00 for an on location time of 03:00.
Event	2	Depart Location Safety Meeting	Depart Location Safety Meeting	11/17/2017	00:55:00	USER				Crew held a pre journey safety meeting and JSA.
Event	3	Depart Shop for Location	Depart Shop for Location	11/17/2017	01:15:00	USER				Started journey management with dispatch and left the yard.
Event	4	Arrive at Location from Service Center	Arrive at Location from Service Center	11/17/2017	01:30:00	USER				Crew performed a site assessment and hazard hunt on location. Checked in with the customer and discussed the job procedures, rig up and well bore schematics to calculate the job. The rig was running casing.
Event	5	Other	Other	11/17/2017	01:40:00	USER				
Event	6	Pre-Rig Up Safety Meeting	Pre-Rig Up Safety Meeting	11/17/2017	01:50:00	USER				Held a pre rig up safety meeting and JSA with the crew.
Event	7	Rig-Up Equipment	Rig-Up Equipment	11/17/2017	02:00:00	USER				The crew rigged up all lines, hoses and equipment for the job.
Event	8	Safety Meeting	Safety Meeting	11/17/2017	05:20:00	USER	0.00	-19.00	8.40	Held a pre job safety meeting and JSA with all personnel on location.
Event	9	Start Job	Start Job	11/17/2017	06:10:48	COM4	0.00	-4.00	8.47	Pumped 3 bbls. of fresh

				7						water to fill lines and establish circulation.
Event	10	Test Lines	Test Lines	11/17/2017	06:14:54	COM4	0.00	225.00	8.48	Pressure tested lines to 4,000 psi. with a 500 psi. electronic kick out test
Event	11	Pump Spacer 1	Pump Spacer 1	11/17/2017	06:22:23	COM4	0.00	117.00	8.43	Pumped 60 bbls. of Tuned Spacer III with surfactants mixed at 10.5 ppg., Yield: 6.25 ft3/sks, 40.2 gal/sks. Density was verified by pressurized scales.
Event	12	Pump Cement	Pump Cement	11/17/2017	06:40:12	USER	4.10	475.00	11.27	Pumped 176.5 bbls. (590 sks.) of Econocem mixed at 13.5 ppg. Yield: 1.68 ft3/sk, 7.99 gal/sk. Density was verified by pressurized scales.
Event	13	Check Weight	Check weight	11/17/2017	06:43:33	COM4	5.80	1396.00	13.44	Cement weight up at 13.5 ppg.
Event	14	Check Weight	Check weight	11/17/2017	06:45:47	COM4	5.80	1285.00	13.49	Cement weight up at 13.5 ppg.
Event	15	Shutdown	Shutdown	11/17/2017	07:14:16	COM4				Shutdown to blow down and wash lines.
Event	16	Clean Lines	Clean Lines	11/17/2017	07:20:30	COM4	2.30	30.00	10.70	Washed pumps and lines until clean
Event	17	Drop Top Plug	Drop Top Plug	11/17/2017	07:30:01	COM4				Loaded and dropped the dart which was witnessed by the company man.
Event	18	Pump Displacement	Pump Displacement	11/17/2017	07:30:07	COM4				Pumped 209.2 bbls. of frersh water with MMCR in the first 20 bbls. and Biocide throughout the rest of displacement. The dart latched the plug 56 bbls. away and shered at 1,685 psi.

Event	19	Bump Plug	Bump Plug	11/17/2017	08:15:16	COM4				Bumped the plug 1,500 psi. over 1,400 psi. at 3 bpm. Held for 5 minutes. Finale pressure was 3,242 psi.
Event	20	Check Floats	Check Floats	11/17/2017	08:20:20	USER	0.00	3098.00	-0.21	Bled of pressure to check floats. Floats held. Got 2 bbls. of fluid back to the truck.
Event	21	Other	Other	11/17/2017	08:24:22	COM4	0.00	2.00	-0.21	The rig set the packer.
Event	22	Pressure Up Well	Pressure Up Well	11/17/2017	08:28:27	COM4				Pressured up to 3,000 psi. through the back side on the packer for 15 minutes. Finale pressure was 3,043 psi. Pressure test was monitored with the rig.
Event	23	Other	Other	11/17/2017	08:54:45	COM4	2.10	570.00	-0.21	Rig stung out of the liner.
Event	24	Clean Hole	Clean Hole	11/17/2017	08:55:28	USER	3.00	676.00	-0.21	Pumped 145 bbls. to clean the hole. Got 58 bbls. of spacer to surface followed by 13 bbls. of clean water. Estimated top of TOC is at 5,878'.
Event	25	Shutdown	Shutdown	11/17/2017	09:22:33	USER	0.00	45.00	-0.21	Bled off pressure.
Event	26	End Job	End Job	11/17/2017	09:41:13	COM4				Washed pumps and blew down all lines until dry and clean.
Event	27	Pre-Rig Down Safety Meeting	Pre-Rig Down Safety Meeting	11/17/2017	23:57:44	USER				Held a pre rig down safety meeting and JSA.
Event	28	Rig-Down Equipment	Rig-Down Equipment	11/17/2017	23:57:48	USER				Rigged down all lines, hoses and equipment.
Event	29	Depart Location Safety Meeting	Depart Location Safety Meeting	11/17/2017	23:57:52	USER				Held a pre journey safety meeting with the crew.

Event	30	Depart Location for Service Center or Other Site	Depart Location for Service Center or Other Site	11/17/2017	23:57:55	USER	Started journey management with dispatch and left location.
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3.0 Attachments

3.1 Anadarko Wagner 28N-E10HZ Production Liner Job Chart

