

*The Road to Excellence Starts with Safety*

<b>Sold To #:</b> 300466		<b>Ship To #:</b> 3819739		<b>Quote #:</b> 0022378257		<b>Sales Order #:</b> 0904453389				
<b>Customer:</b> ANADARKO PETROLEUM CORP-EBUS				<b>Customer Rep:</b> Carlton Cooley						
<b>Well Name:</b> ROBIN			<b>Well #:</b> 9-14HZ		<b>API/UWI #:</b> 05-123-45248-00					
<b>Field:</b> WATTENBERG		<b>City (SAP):</b> HUDSON		<b>County/Parish:</b> WELD		<b>State:</b> COLORADO				
<b>Legal Description:</b> SE SE-9-1N-65W-318FSL-904FEL										
<b>Contractor:</b> NABORS DRLG				<b>Rig/Platform Name/Num:</b> NABORS X22						
<b>Job BOM:</b> 7523 7523										
<b>Well Type:</b> HORIZONTAL GAS										
<b>Sales Person:</b> HALAMERICA\HX41066				<b>Srvc 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>		18511ft				<b>Job Depth TVD</b>				
<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>
Casing		9.625	8.921	36		J-55	0	1845	0	1845
Casing		5.5	4.892	17	LTC	HCP110	0	18478	0	7393
Open Hole Section			7.875				1845	18490	1846	7333
<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>	
Guide Shoe						Top Plug	5.5	1	weatherford	
Float Shoe	5.5			18478		Bottom Plug	5.5	1	Weatherford	
Float Collar	5.5			18475		SSR plug set	5.5		HES	
Insert Float						Plug Container	5.5	1	HES	
Stage Tool						Centralizers	5.5		HES	
<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	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	ELASTICEM (TM) SYSTEM	630	sack	13.2	1.57		8	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	EconoCem	ECONOCEM (TM) SYSTEM	1350	sack	13.5	1.68		8	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
4	Biocide Water and MMCR	Biocide Water and MMCR	20	bbl	8.34			10	
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	408	bbl	8.34			8.5	
Cement Left In Pipe		Amount	0 Ft		Reason			Wet Shoe	
Comment Had full returns through out the job, got 32BBLS of spacer to surface, estimated TOT 6239 Ft, TOL 1002, floats held, got 3.5BBIS of fluid back to the truck, pumped 5BBL wet shoe.									

## 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	11/25/2017	17:00:00	USER				Crew was called out at 17:00 for an on location time of 21:30.
Event	2	Depart Location Safety Meeting	Depart Location Safety Meeting	11/25/2017	23:50:00	USER				Crew held a pre journey safety meeting and JSA.
Event	3	Depart Location for Service Center or Other Site	Depart Location for Service Center or Other Site	11/25/2017	23:55:55	USER				Started journey management with dispatch and left location.
Event	4	Arrive at Location from Other Job or Site	Arrive at Location from Other Job or Site	11/26/2017	00:00:00	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 circulating.
Event	5	Other	Other	11/26/2017	00:10:00	USER				W
Event	6	Pre-Rig Up Safety Meeting	Pre-Rig Up Safety Meeting	11/26/2017	00:15:00	USER				The crew held a pre rig up safety meeting and JSA.
Event	7	Rig-Up Equipment	Rig-Up Equipment	11/26/2017	00:25:00	USER				The crew rigged up all lines, hoses and equipment for the job.
Event	8	Safety Meeting	Safety Meeting	11/26/2017	01:45:00	USER	0.00	-3.00	-0.31	All personnel on location held a pre job safety meeting and JSA.
Event	9	Start Job	Start Job	11/26/2017	02:30:05	COM4	0.00	-3.00	7.67	Pumped 3 bbls. of fresh water to fill lines and

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										establish circulation.
Event	10	Test Lines	Test Lines	11/26/2017	02:33:01	COM4	0.00	92.00	8.23	Pressure tested lines to 6,000 psi. with a 500 psi. electronic kick out test.
Event	11	Pump Spacer 1	Pump Spacer 1	11/26/2017	02:40:34	COM4	0.00	77.00	8.10	Pumped 80 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	Drop Bottom Plug	Drop Bottom Plug	11/26/2017	02:59:19	COM4	6.20	841.00	12.53	Dropped the bottom plug which, was witnessed by the customer.
Event	13	Pump Lead Cement	Pump Lead Cement	11/26/2017	02:59:33	COM4	6.20	816.00	12.91	Pumped 176 bbls. (630 sks.) of Elasticem mixed at 13.2 ppg.,Yield: 1.57 ft3/sks, 7.53 gal/sks. Density was verified by pressurized scales.
Event	14	Check Weight	Check weight	11/26/2017	03:00:37	COM4	6.20	779.00	13.37	Cement weighted up at 13.2 ppg.
Event	15	Check Weight	Check weight	11/26/2017	03:08:35	COM4	7.40	648.00	13.18	Cement weighted up at 13.2 ppg.
Event	16	Pump Tail Cement	Pump Tail Cement	11/26/2017	03:22:56	COM4	7.80	522.00	13.36	Pumped 404 bbls. (1350 sks.) of Econocem mixed at 13.5 ppg. Yield: 1.68 ft3/sk, 7.98 gal/sk. Density was verified by pressurized scales.
Event	17	Check Weight	Check weight	11/26/2017	03:25:26	COM4	7.80	565.00	13.49	Cement weighted up at 13.5 ppg.
Event	18	Check Weight	Check weight	11/26/2017	03:45:41	COM4	8.10	619.00	13.51	Cement weighted up at 13.5 ppg.
Event	19	Shutdown	Shutdown	11/26/2017	04:16:01	COM4				Shutdown and the rig blew the iron down to the wash up pit.

Event	20	Clean Lines	Clean Lines	11/26/2017	04:16:07	COM4				Washed pumps and lines until clean.
Event	21	Drop Top Plug	Drop Top Plug	11/26/2017	04:25:33	COM4				Dropped the top plug, which was witnessed by the customer.
Event	22	Pump Displacement	Pump Displacement	11/26/2017	04:32:40	COM4				Pumped 428.6 bbls. of fresh water with MMCR in the first 20 bbls. and Biocide throughout the rest of displacement.
Event	23	Bump Plug	Bump Plug	11/26/2017	05:32:23	COM4				
Event	24	Pressure Up Well	Pressure Up Well	11/26/2017	05:46:07	COM4				Pressured up the well to 5077 psi. burst the plug. Pumped a 5 bbl. wet shoe.
Event	25	Other	Other	11/26/2017	05:49:22	COM4				Bled off pressure to check floats. Floats held. Got 3.5 bbls. of fluid back to the truck.
Event	26	End Job	End Job	11/26/2017	05:50:40	COM4				Washed pumps, lines until clean and blew down pumps and lines until dry.
Event	27	Pre-Rig Down Safety Meeting	Pre-Rig Down Safety Meeting	11/26/2017	06:10:00	USER	0.00	-2.00	-0.23	Halliburton cement crew held a pre rig down safety meeting and JSA.
Event	28	Rig-Down Equipment	Rig-Down Equipment	11/26/2017	06:15:00	USER	0.00	-2.00	-0.25	Rigged down all lines, hoses and equipment.
Event	29	Depart Location Safety Meeting	Depart Location Safety Meeting	11/26/2017	07:15:00	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	11/26/2017	07:25:00	USER				Started journey management with dispatch and left location.

## 3.0 Attachments

### 3.1 Anadarko Robin 9-14HZ Production Job Chart

