

The Road to Excellence Starts with Safety

Sold To #: 300466		Ship To #: 3751861		Quote #: 0022355774		Sales Order #: 0904345971				
Customer: ANADARKO PETROLEUM CORP-EBUS				Customer Rep: Josh Barkell						
Well Name: WAGNER			Well #: 26C-10HZ		API/UWI #: 05-123-43477-00					
Field: WATTENBERG		City (SAP): IONE		County/Parish: WELD		State: COLORADO				
Legal Description: SE NE-22-1N-67W-1654FNL-761FEL										
Contractor: PRECISION DRLG				Rig/Platform Name/Num: PRECISION 464						
Job BOM: 7522 7522										
Well Type: HORIZONTAL GAS										
Sales Person: HALAMERICA\HX41066				Srv Supervisor: Luke Kosakewich						
Job										
Formation Name										
Formation Depth (MD)		Top				Bottom				
Form Type						BHST				
Job depth MD		5961ft		Job Depth TVD		5817ft				
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	1871	0	1871
Casing		7	6.276	26	LTC	HCP110	0	5951	0	5817
Open Hole Section			8.5				1868	5961	1871	5817
Tools and Accessories										
Type	Size in	Qty	Make	Depth ft		Type	Size in	Qty	Make	
Guide Shoe						Top Plug	7	1	Wetherford	
Float Shoe	7			5951		Bottom Plug	7	1	Weatherford	
Float Collar	7			5911		SSR plug set				
Insert Float						Plug Container	7	1	HES	
Stage Tool						Centralizers				
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		4	40.2	
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	555	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/ OBM	225.8	bbl	9.5			6	
Cement Left In Pipe		Amount	40 ft		Reason			Shoe Joint	
Comment Full returns throughout the job. Got 15 bbls. of cement to surface. Floats held got 3 bbls. 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	10/4/2017	11:30:00	USER				Crew was called out at 03:00 for an on location time of 06:30.
Event	2	Depart Location Safety Meeting	Depart Location Safety Meeting	10/4/2017	14:20:00	USER				Held a pre journey safety meeting and JSA with the crew.
Event	3	Depart Shop for Location	Depart Shop for Location	10/4/2017	14:30:00	USER				Started journey management with dispatch and left the yard.
Event	4	Arrive at Location from Service Center	Arrive at Location from Service Center	10/4/2017	14:50:00	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	10/4/2017	14:55:00	USER				Wellbore: MD:5,961', TP: 5,951' of 7" 26# CSG, FC: 5,911', TVD: 5,817', OH 8.5, SC: 1,871' of 9.625" 36# CSG. Mud# 9.5, Water test: PH: 7.1, Chlorides: 0, Temp 62 degrees.
Event	6	Pre-Rig Up Safety Meeting	Pre-Rig Up Safety Meeting	10/4/2017	18:10:00	USER				Held a pre rig up safety meeting and JSA with the crew.
Event	7	Rig-Up Equipment	Rig-Up Equipment	10/4/2017	18:15:00	USER				The crew rigged up all lines, hoses and equipment for

										the job.
Event	8	Safety Meeting	Safety Meeting	10/4/2017	20:00:00	USER				Held a pre job safety meeting and JSA with all personnel on location.
Event	9	Start Job	Start Job	10/4/2017	20:40:43	COM4	2.20	121.00	8.32	Pumped 3 bbls. of fresh water to fill lines.
Event	10	Test Lines	Test Lines	10/4/2017	20:42:43	COM4	0.00	55.00	8.30	Pressure tested lines to 4,000 psi. with a 500 psi. electronic kick out test. Pressure test failed. Pressure was fall off 7 psi. for every second. Had to trouble shoot what was leaking. Found the leak on the wash up manifold at a hammer uion. Bled off pressure and tighened the uion. Repressure tested and pressure test held pressure.
Event	11	Pump Spacer 1	Pump Spacer 1	10/4/2017	21:21:57	COM4	0.00	25.00	8.40	Pumped 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	10/4/2017	21:35:43	COM4	3.00	223.00	12.82	Dropped the bottom plug witnessed by the customer.
Event	13	Pump Cement	Pump Cement	10/4/2017	21:36:13	COM4	3.80	305.00	13.04	Pumped 155 bbls. (555 sks.) of Elasticem with Super CBL mixed at 13.2 ppg.,Yield: 1.57 ft3/sks, 7.54 gal/sks. Density was verified by pressurized scales.
Event	14	Shutdown	Shutdown	10/4/2017	22:10:35	COM4	0.00	-2.00	13.77	Loaded the top plug into the plug container.
Event	15	Drop Top Plug	Drop Top Plug	10/4/2017	22:16:36	COM4	0.00	2.00	13.36	Dropped the top plug witnessed by the customer.

Event	16	Pump Displacement	Pump Displacement	10/4/2017	22:22:07	COM4	0.00	6.00	13.21	Pumped 226 bbls. of OBM for displacement. Got 40 bbls. of Tuned Spacer III and 15 bbls. of Cement back to surface
Event	17	Bump Plug	Bump Plug	10/4/2017	23:21:44	COM4	0.00	2100.00	9.66	Bumped the plug 500 psi. over 1,800 psi. Finale pressure was 2,300 psi. Held for 5 minute. Bled off pressure to check floats and got 2 bbls. back to the truck.
Event	18	Pressure Up Well	Pressure Up Well	10/4/2017	23:27:23	COM4	0.00	54.00	9.52	Pressured up the well to 3,000 psi. for a 15 minute casing test.
Event	19	Other	Other	10/4/2017	23:47:17	USER	0.00	1800.00	9.58	Bled off pressure to check floats. Floats held and got 3 bbls. back to the truck.
Event	20	End Job	End Job	10/4/2017	23:50:00	COM4	0.00	28.00	9.52	Washed up pumps and lines until clean.
Event	21	Pre-Rig Down Safety Meeting	Pre-Rig Down Safety Meeting	10/4/2017	23:55:00	USER	0.30	-5.00	9.50	Held a pre rig down safety meeting and JSA.
Event	22	Rig-Down Equipment	Rig-Down Equipment	10/5/2017	00:00:00	USER	4.80	84.00	8.32	Rigged down all lines, hoses and equipment.
Event	23	Depart Location Safety Meeting	Depart Location Safety Meeting	10/5/2017	01:05:00	USER				Held a pre journey safety meeting with the crew.
Event	24	Depart Location for Service Center or Other Site	Depart Location for Service Center or Other Site	10/5/2017	01:15:00	USER				Started journey management with dispatch and left location.

3.0 Attachments

3.1 Anadarko Wagner 26C-10HZ Intermediate Job Chart

