

The Road to Excellence Starts with Safety

Sold To #: 300466		Ship To #: 0003703444		Quote #: 0022469210		Sales Order #: 0905013155					
Customer: ANADARKO PETROLEUM CORP-EBUS				Customer Rep: Albert Bryan							
Well Name: ZELDA			Well #: 25-10HZ		API/UWI #: 05-123-42410-00						
Field: WATTENBERG		City (SAP): HUDSON		County/Parish: WELD		State: COLORADO					
Legal Description: NE NW-25-2N-65W-482FNL-1933FWL											
Contractor: XTREME DRLG				Rig/Platform Name/Num: XTREME 22							
Job BOM: 7523 7523											
Well Type: HORIZONTAL GAS											
Sales Person: HALAMERICA\HX41066				Srvc Supervisor: Kendall Broom - H194727							
Job											
Formation Name											
Formation Depth (MD)		Top		Bottom							
Form Type					BHST						
Job depth MD		17734ft			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	1863			
Casing		5.5	4.892	17	LTC	HCP110	0	17724			
Open Hole Section			7.875				1883	17734			
Tools and Accessories											
Type	Size in	Qty	Make	Depth ft		Type	Size in	Qty	Make		
Guide Shoe	5.5					Top Plug	5.5		HES		
Float Shoe	5.5			17724		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			80	bbl	10.5	6.96			
0.25 gal/bbl		D-AIR 3000L, 5 GAL PAIL (101007444)									
79.92 lbm/bbl		BARITE, BULK (100003681)									

0.70 gal/bbl	MUSOL(R) A, 5 GAL PAIL (100064220)								
35.50 gal/bbl	FRESH WATER								
0.70 gal/bbl	DUAL SPACER SURFACTANT B, 5 GAL PAIL (100003665)								
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	Gasstop B1	GASSTOP (TM) SYSTEM	630	sack	13.2	1.59		6	7.83
5.23 Gal		FRESH WATER							
61.10 lbm		TYPE I / II CEMENT, BULK (101439798)							
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	1050	sack	13.5	1.68		6	7.98
0.10 %		SA-1015, 50 LB SACK (102077046)							
7.98 Gal		FRESH WATER							
0.40 %		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				
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	391	bbl	8.34				
Cement Left In Pipe	Amount	5 ft			Reason			Shoe Joint	
Mix Water:	pH7	Mix Water Chloride:	0 ppm			Mix Water Temperature:	80°F °C		
Plug Bumped?	Yes	Bump Pressure:	2680 psi MPa			Floats Held?	Yes		
Comment Pumped Tuned spacer with Biocide. Pumped lead cement with Latex. Bumped plug.Held 3000psi for a10 min casing test.Burst shoe and pumped 3 bbl wet shoe. Checked floats and got 2.5 bbls back on the truck. Floats held.									

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	7/27/2018	12:00:00	USER	Called crew out to be on location at 1800
Event	2	Depart Shop for Location	Depart Shop for Location	7/27/2018	15:30:00	USER	Held a safety meeting before leaving for location
Event	3	Arrive At Loc	Arrive At Loc	7/27/2018	16:00:00	USER	Arrive at location and met with the company man
Event	4	Rig-up Lines	Rig-up Lines	7/27/2018	16:30:00	USER	Held a hazard hunt before spotting in trucks and rigging up
Event	5	Safety Meeting	Safety Meeting	7/27/2018	21:45:00	USER	Held a safety meeting with the rig to discuss the operation and safety
Event	6	Start Job	Start Job	7/27/2018	22:40:11	COM5	Filled line with 2bbls water
Event	7	Test Lines	Test Lines	7/27/2018	22:42:23	COM5	Test lines to 6500 psi. with a 500 kick out and a 5th gear stall
Event	8	Pump Spacer 1	Pump Spacer 1	7/27/2018	22:49:47	COM5	Pumped 80 bbls Tuned Spacer. Pumped at 4bpm and 650 psi. 10.5#, 6.96 yield, 35.5 gal/sks. Musol and surfactant added on the fly. Biocide was added down hole at .08 gal. per 80 bbls.
Event	9	Shutdown	Shutdown	7/27/2018	23:13:39	COM5	Weighed up lead cement.

Event	10	Drop Top Plug	Drop Top Plug	7/27/2018	23:13:59	COM5	Dropped bottom plug, preloaded and witnessed by the company man
Event	11	Pump Lead Cement	Pump Lead Cement	7/27/2018	23:14:34	COM5	Pumped 178.4 bbls Gasstop. 630 ska, 13.2#, 1.59 yield, 7.83 gal/sks. Mixed with Latex. Pumped at 6.5 bpm and 500 psi. Calculated TOLC 1819ft
Event	12	Check Weight	Check Weight	7/27/2018	23:23:09	COM5	Verified weight with the pressurized scale.
Event	13	Pump Tail Cement	Pump Tail Cement	7/27/2018	23:47:53	COM5	Pumped 314.2 bbls Econocem. 1050 sks, 13.5#, 1.68 yield, 7.98 gal/sks. Pumped at 6 bpm and 505 psi. calculated TOTC 7568 ft.
Event	14	Check Weight	Check Weight	7/27/2018	23:53:54	COM5	Verified weight with the pressurized scale
Event	15	Check Weight	Check Weight	7/27/2018	23:56:49	COM5	Verified weight with the pressurized scale
Event	16	Check Weight	Check Weight	7/28/2018	00:05:50	COM5	Verified weight with the pressurized scale
Event	17	Shutdown	Shutdown	7/28/2018	00:37:35	COM5	Shut down and blew the line out with rig air. washed up cement head and lines
Event	18	Drop Top Plug	Drop Top Plug	7/28/2018	00:51:03	COM5	Dropped top plug, preloaded and witnessed by the company man.
Event	19	Pump Displacement	Pump Displacement	7/28/2018	00:51:05	COM5	Pumped 411 bbls displacement. First 20 bbls had MMCR and the balance had Biocide.
Event	20	Bump Plug	Bump Plug	7/28/2018	01:42:18	COM5	Bumped plug at 2680 psi final lift. Pressured up well to 2900 psi for 10 min casing test. Climbed to 3106 psi
Event	21	Pressure Up Well	Pressure Up Well	7/28/2018	01:53:00	COM5	Pressured up the well to 4335 psi and burst the shoe. Then pumped 3 bbl wet shoe.

Event	22	Shutdown	Shutdown	7/28/2018	02:04:01	COM5	Blew down the lines with rig air and washed up lines.
Event	23	End Job	End Job	7/28/2018	02:04:13	COM5	
Event	24	Rig Down Lines	Rig Down Lines	7/28/2018	02:15:18	USER	Held a safety meeting before rigging down lines.
Event	25	Depart Location	Depart Location	7/28/2018	03:30:00	USER	Held a safety huddle before leaving location

3.0 Attachments

3.1 Job Chart

