

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

