

The Road to Excellence Starts with Safety

Sold To #: 300466	Ship To #: 3855506	Quote #: 0022461762	Sales Order #: 0904972547
Customer: ANADARKO PETROLEUM CORP-EBUS		Customer Rep: Levi Rogers/Albert Bryan	
Well Name: GEORGE		Well #: 25-3HZ	API/UWI #: 05-123-46331-00
Field: WATTENBERG	City (SAP): HUDSON	County/Parish: WELD	State: COLORADO
Legal Description: SW NE-25-2N-65W-2282FNL-2059FEL			
Contractor: XTREME DRLG		Rig/Platform Name/Num: XTREME 22	
Job BOM: 7523 7523			
Well Type: HORIZONTAL GAS			
Sales Person: HALAMERICA/HX41066		Srvc Supervisor: Kamereon White	

Job

Formation Name				
Formation Depth (MD)	Top	1917ft	Bottom	18092ft
Form Type	BHST			
Job depth MD	18082ft	Job Depth TVD	7150ft	
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	1917	0	0
Casing		5.5	4.892	17	LTC	HCP110	0	18082	0	7148
Open Hole Section			7.875				1917	18092	1917	7148

Tools and Accessories

Type	Size in	Qty	Make	Depth ft	Type	Size in	Qty	Make
					Top Plug	5.5	1	Wetherford
Float Shoe	5.5	1	WTHR	18082	Bottom Plug	5.5	1	Wetherford
Float Collar	5.5	1	WTHR	18064				
					Plug Container	5.5	1	HES

Fluid Data

Stage/Plug #: 1										
Fluid #	Stage Type	Fluid Name	Qty	Qty UoM	Mixing Density lbm/gal	Yield ft ³ /sack	Mix Fluid Gal	Rate bbl/min	Total Mix Fluid Gal	
1	Tuned Spacer III	Tuned Spacer III	80	bbl	10.5	6.96	44.4	4		
0.70 gal/bbl		DUAL SPACER SURFACTANT B, 5 GAL PAIL (100003665)								
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)							
37.58 gal/bbl		FRESH WATER							
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	7.83	6	7.83
0.10 Gal		D-AIR 3000L, TOTETANK (101396181)							
0.05 %		FE-2 (100001615)							
0.60 %		SCR-100 (100003749)							
5.23 Gal		FRESH WATER							
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	1090	sack	13.5	1.68		6	7.98
0.10 %		SA-1015, 50 LB SACK (102077046)							
7.99 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	20	bbl	8.34				
Cement Left In Pipe	Amount	5 ft			Reason			Shoe Joint	
Mix Water:	pH 7	Mix Water Chloride:	<400 ppm		Mix Water Temperature:	76 °F			
Cement Temperature:		Plug Displaced by:	8.33 lb/gal		Disp. Temperature:	76 °F			
Plug Bumped?	Yes	Bump Pressure:	2600 psi		Floats Held?	Yes			
Cement Returns:	0 bbl	Returns Density:	9.2 lb/gal		Returns Temperature:				
Comment									

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	7/6/2018	06:00:00	USER	Crew was called out at 0600 and was requested to be on location at 1300.
Event	2	Depart from Service Center or Other Site	Depart from Service Center or Other Site	7/6/2018	11:40:00	USER	crew departed from service center and supervisor called in a journey.
Event	3	Arrive at Location from Service Center	Arrive at Location from Service Center	7/6/2018	12:15:00	USER	Crew arrived on location early and the rig was still running casing.
Event	4	Assessment Of Location Safety Meeting	Assessment Of Location Safety Meeting	7/6/2018	12:20:00	USER	The crew discussed rig up procedures. Supervisor went a got numbers from the company man. TD 18092 TP 18082 FC 18064 Casing Size 5.5 17# P-110 PC 9.625 36# set at 1917 TVD 7150 .
Event	5	Safety Meeting - Pre Rig-Up	Pre-Rig Up Safety Meeting	7/6/2018	13:15:00	USER	Discussed JSA and signed it.

Event	6	Other	Rig Up Equipment	7/6/2018	13:20:00	USER	Rig up all HES equipment and lines safely.
Event	7	Other	Rig Up Completed	7/6/2018	14:20:00	USER	All HES equipment and lines rigged up safely and no one got hurt.
Event	8	Safety Meeting	Safety Meeting - Pre Job	7/6/2018	16:40:00	USER	Dissused job procedures and pressures with all involved with job.
Event	9	Other	Other	7/6/2018	17:06:55	COM4	Filled lines with 3bbls of fresh water at 3bpm at 330psi.
Event	10	Test Lines	Test Lines	7/6/2018	17:09:55	COM4	Tested lines to 500 to test kickouts and then preformed a highpressure test to 4500psi and held for 3 minutes and no leaks.
Event	11	Check Weight	Check Weight	7/6/2018	17:13:50	COM4	Checked the weight of the spacer with pressurized mud scales. The slurry scaled at 10.5ppg.
Event	12	Pump Spacer 1	Pump Spacer 1	7/6/2018	17:14:44	COM4	Pumped 80 bbls of tuned spacer with surfactants at 10.5ppg 6.96 yield 44.4 gals/sk @ 4bpm at 320psi

Event	13	Drop Bottom Plug	Drop Bottom Plug	7/6/2018	17:32:16	COM4	Company man witnessed the bottom plug drop.
Event	14	Shutdown	Shutdown	7/6/2018	17:32:30	COM4	Shutdown to zero out totals. Weighed up lead cement to 13.2ppg with pressurized mud scales.
Event	15	Pump Lead Cement	Pump Lead Cement	7/6/2018	17:34:39	COM4	Pumped 178 bbls of latex lead cement at 13.2 ppg 1.59 yield 7.83 gals/sk (630 sks) 6bpm at 340psi.
Event	16	Check Weight	Check Weight	7/6/2018	17:37:51	COM4	Checked the weight of the lead cement at 13.2 ppg.
Event	17	Check Weight	Check Weight	7/6/2018	17:49:07	COM4	Checked the weight of the cement scaled at 13.5 ppg.
Event	18	Check Weight	Check Weight	7/6/2018	18:10:01	COM4	Checked the weight of the cement it weighed up at 12.9ppg.
Event	19	Pump Tail Cement	Pump Tail Cement	7/6/2018	18:14:51	COM4	Pumped 326 bbls of tail cement at 13.5 ppg 1.68 yield 7.98 gals/sk (1090 sks)

Event	20	Check Weight	Check Weight	7/6/2018	18:19:06	COM4	Checked the weight of the tail cement it weighed up at 13.5 ppg using pressurized mud scales.
Event	21	Shutdown	Shutdown	7/6/2018	18:59:20	COM4	Shutdown to blow lines down to wash up tank and washed pumps and lines.
Event	22	Drop Top Plug	Drop Top Plug	7/6/2018	19:10:24	COM4	Company man witnessed top plug drop.
Event	23	Pump Displacement	Pump Displacement	7/6/2018	19:10:28	COM4	Displaced 419 Bbls of water with the first 20 bls with MMCR and and 20 Bbls with biocide. at 45bbls away Caught the plug and maintained 10bpm.
Event	24	Displ Reached Cement	Displ Reached Cement	7/6/2018	19:15:43	COM4	Displacement reached cement at 45 bbls away.
Event	25	Bump Plug	Bump Plug	7/6/2018	20:06:39	COM4	Bumped the plug on calculated displacment final circulating pressure was 2600psi took it 500 psi over to 3100psi and shut down waited 15 mins for casing test. pressure gained 300 psi .
Event	26	Other	Other	7/6/2018	20:14:03	COM4	Pressured up to rupture disk. The disk ruptured at 4200 psi.

Event	27	Other	Other	7/6/2018	20:15:48	COM4	Pumped 3bbl wet shoe as customer requested. Checked floats floats held got 3 bbls back to truck.
Event	28	End Job	End Job	7/6/2018	20:17:02	COM4	Cement job complete.
Event	29	Rig-Down Completed	Rig-Down Completed	7/6/2018	20:20:00	USER	All HES lines and equipment rigged down safely. No one got hurt.
Event	30	Pre-Rig Down Safety Meeting	Pre-Rig Down Safety Meeting	7/6/2018	20:20:00	USER	Crew held pre rig down safety meeting. discussed rig down procedures.
Event	31	Depart Location	Depart Location	7/6/2018	22:00:00	USER	Kamereon White and crew would like to thank you for your business and choosing Halliburton Cement. Please give us a call if you have any questions.

3.0 Attachments

3.1 Job Chart

