

The Road to Excellence Starts with Safety

Sold To #: 300466		Ship To #: 3855581		Quote #: 0022461086		Sales Order #: 0904963316				
Customer: ANADARKO PETROLEUM CORP-EBUS				Customer Rep: Albert Bryan						
Well Name: GEORGE			Well #: 25-4HZ		API/UWI #: 05-123-46335-00					
Field: WATTENBERG		City (SAP): HUDSON		County/Parish: WELD		State: COLORADO				
Legal Description: SW NE-25-2N-65W-2296FNL-2054FEL										
Contractor: XTREME DRLG				Rig/Platform Name/Num: XTREME 22						
Job BOM: 7523 7523										
Well Type: HORIZONTAL GAS										
Sales Person: HALAMERICA\HX41066				Srv Supervisor: Kamereon White						
Job										
Formation Name										
Formation Depth (MD)		Top		Bottom						
Form Type				BHST						
Job depth MD		15621 ft		Job Depth TVD		6913				
Water Depth				Wk Ht Above Floor		5				
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	1853	0	1853
Casing		5.5	4.892	17	LTC	HCP110	0	15610.84	0	6913
Open Hole Section			7.875				1853	15621	1853	6913
Tools and Accessories										
Type	Size in	Qty	Make	Depth ft		Type	Size in	Qty	Make	
Guide Shoe	5.5					Top Plug	5.5	1	WTHR	
Float Shoe	5.5	1	WTHR	15610.84		Bottom Plug	5.5	1	WTHR	
Float Collar	5.5	1	WTHR	15601.21		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	44.4	5		
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	820	sack	13.5	1.68		8	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	342	bbl	8.34			13	
Cement Left In Pipe		Amount	5 ft		Reason			Shoe Joint	
Mix Water:		7 pH	Mix Water Chloride:		< 400 ppm		Mix Water Temperature:		76 °F
Cement Temperature:			Plug Displaced by:		8.33 lb/gal		Disp. Temperature:		
Plug Bumped?		Yes	Bump Pressure:		2900 psi		Floats Held?		Yes
Cement Returns:		0	Returns Density:		9.5 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	7/1/2018	18:00:00	USER	Crew call out and was requested on location @ 7/02/2018 @00:00.
Event	2	Depart from Service Center or Other Site	Depart from Service Center or Other Site	7/1/2018	22:00:00	USER	Crew left the yard and supervisor called in a journey.
Event	3	Arrive at Location from Service Center	Arrive at Location from Service Center	7/1/2018	22:50:00	USER	Crew arrived on location early and the rig was running casing.
Event	4	Assessment Of Location Safety Meeting	Assessment Of Location Safety Meeting	7/1/2018	23:00:00	USER	Supervisor and crew walked around and discussed spot in, and rig up procedures. Supervisor met with the customer and got well info, OH- 7-7/8", TD-15621', TP-15,610.84', FC-15,601.21', Cas-5.5" 17# P110, PC-9-5/8" 36# Set @ 1853' Mud # 9.5 ppg .TVD-6913', and pumped a 3 bbls wet shoe.
Event	5	Pre-Rig Up Safety Meeting	Pre-Rig Up Safety Meeting	7/1/2018	23:10:00	USER	Discussed the rig up procedure and JSA and all HES personel signed it .
Event	6	Rig-Up Equipment	Rig Up Equipment	7/1/2018	23:30:00	USER	Rig up all HES equipment and lines.
Event	7	Rig-Up Completed	Rig Up Completed	7/2/2018	00:30:00	USER	All HES equipment and lines rigged up safe.

Event	8	Start Job	Start Job	7/2/2018	02:26:20	COM4	Start The Flecs and primed the pumps.
Event	9	Safety Meeting - Pre Job	Safety Meeting - Pre Job	7/2/2018	03:00:00	USER	Discussed the job procedure and pressures with the rig crew ,co.rep , and all HES employees.
Event	10	Other	Other	7/2/2018	03:34:11	COM4	Fill lines with 3 bbls of water 3 bpm 440 psi.
Event	11	Test Lines	Test Lines	7/2/2018	03:39:32	COM4	Tested the lines to 500 psi to test the kick outs and than performed a psi test to 4500 psi and held for 3 min no leaks.
Event	12	Check Weight	Check Weight	7/2/2018	03:43:00	COM4	Checked the weight of the spacer, Scaled @ 10.5 ppg
Event	13	Pump Spacer 1	Pump Spacer 1	7/2/2018	03:47:03	COM4	Pumped 80 bbls of TS III @ 5 bpm 560 psi.
Event	14	Shutdown	Shutdown	7/2/2018	04:08:35	COM4	Shutdown to drop the bottom plug and to get a tub of Latex cement scaled and ready to pump down hole.
Event	15	Drop Bottom Plug	Drop Bottom Plug	7/2/2018	04:09:08	COM4	Co. Rep witnessed.
Event	16	Pump Lead Cement	Pump Lead Cement	7/2/2018	04:12:17	COM4	Pumped 178 bbls of Latex cement @ 13.2 ppg , 6 bpm 610 psi.
Event	17	Check Weight	Check Weight	7/2/2018	04:14:28	COM4	Checked the weight of the Latex lead cement, Scaled @ 13.2 ppg.
Event	18	Pump Tail Cement	Pump Tail Cement	7/2/2018	04:46:44	COM4	Pumped 245 bbls of tail cement @ 13.5 ppg, 8 bpm 530 psi.

Event	19	Check Weight	Check Weight	7/2/2018	04:47:28	COM4	Checked the weight of the tail cement with the pressurized mud scales scaled @ 13.5 ppg
Event	20	Check Weight	Check Weight	7/2/2018	05:07:21	COM4	Checked the weight of the tail cement with the pressurized mud scales scaled @ 13.5 ppg.
Event	21	Shutdown	Shutdown	7/2/2018	05:24:43	COM4	Shutdown to blow air back through the lines and to swap over to wash pumps and lines to the wash up tank.
Event	22	Drop Top Plug	Drop Top Plug	7/2/2018	05:37:07	COM4	Co. Rep witnessed the plug being dropped and the plug indicator worked.
Event	23	Pump Displacement	Pump Displacement	7/2/2018	05:37:54	COM4	Pumped 362 bbls of water for displ. 13 bpm as per customer request,
Event	24	Displ Reached Cement	Displ Reached Cement	7/2/2018	05:43:21	COM4	45 bbls into displacement we caught the plug maintained 12 bpm as per customer.
Event	25	Bump Plug	Bump Plug	7/2/2018	06:21:38	COM4	Bumped the plug on calculated displacement. Final Circulating psi was 2900 psi and took 500 psi over FCP to 3400 psi and shutdown to watch psi climb for 5 min.
Event	26	Pressure Up Well	Pressure Up Well	7/2/2018	06:29:49	COM4	Ruptured the disk @ 4900 psi and than pumped Anadarko a 3 bbl wet shoe as job design.
Event	27	Other	Other	7/2/2018	06:31:08	COM4	Pumped a 3 bbls wet shoe and shutdown.
Event	28	End Job	End Job	7/2/2018	06:32:06	COM4	Cement job complete, Floats held got 2.5 bbls back.
Event	29	Pre-Rig Down Safety Meeting	Pre-Rig Down Safety Meeting	7/2/2018	06:34:00	USER	Discussed post job JSA and rig down procedures.

Event	30	Rig-Down Completed	Rig-Down Completed	7/2/2018	07:40:00	USER	All HES equipment and lines rigged down safely no one got hurt.
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Event	31	Depart Location for Home	Depart Location for Home	7/2/2018	08:15:00	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.
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3.0 Attachments

3.1 Job Chart

Custom Results

