

The Road to Excellence Starts with Safety

Sold To #: 300466	Ship To #: 3743877	Quote #: 0022414490	Sales Order #: 0904690290
Customer: ANADARKO PETROLEUM CORP-EBUS		Customer Rep: Keith & Jeremy	
Well Name: MARRS	Well #: 28N-10HZ	API/UWI #: 05-123-43270-00	
Field: WATTENBERG	City (SAP): IONE	County/Parish: WELD	State: COLORADO
Legal Description: SE NW-22-1N-67W-2135FNL-2010FWL			
Contractor:		Rig/Platform Name/Num: Xtreme 24	
Job BOM: 7523 7523			
Well Type: HORIZONTAL GAS			
Sales Person: HALAMERICA\HX41066		Srvc Supervisor: Bryan Kraft	

Job

Formation Name			
Formation Depth (MD)	Top		Bottom
Form Type	BHST		
Job depth MD	15646ft	Job Depth TVD	7401ft
Water Depth		Wk Ht Above Floor	4ft
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	1873	0	1873
Casing		5.5	4.892	17	LTC	HCP110	0	15646	0	7401
Open Hole Section			8.5				1873	15663	1873	7401

Tools and Accessories

Type	Size in	Qty	Make	Depth ft	Type	Size in	Qty	Make
Guide Shoe					Top Plug	5.5	1	WF
Float Shoe	5.5	1	WF	15646	Bottom Plug	5.5	1	WF
Wet Shoe Sub	5.5	1	WF	15635	SSR plug set			
Insert Float					Plug Container	5.5	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	Spacer	TUNED SPACER III	80	bbl	10.5	6.43	41.3	4	2885	
35.70 gal/bbl		FRESH WATER								
0.70 gal/bbl		DUAL SPACER SURFACTANT B, 5 GAL PAIL (100003665)								
0.70 gal/bbl		MUSOL A, 330 GAL TOTE - (790828)								

86.45 lbm/bbl		BARITE, BULK (100003681)							
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	Lead Cement	ELASTICEM (TM) SYSTEM	700	sack	13.2	1.57	7.53	8	5271
7.53 Gal		FRESH WATER							
0.10 %		SUPER CBL, 50 LB PAIL (100003668)							
0.45 %		SCR-100 (100003749)							
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	Tail Cement	ECONOCEM (TM) SYSTEM	1380	sack	13.5	1.68	7.99	8	11026
7.99 Gal		FRESH WATER							
0.38 %		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	Displacement	FRESH WATER	363	bbl	8.33			8	15246
0.50 gal/bbl		MICRO MATRIX CEMENT RETARDER, 5 GAL PAIL (100003781)							
Cement Left In Pipe	Amount	0 ft			Reason			Wet Shoe Joint	
Mix Water:	pH 7	Mix Water Chloride:	<300 ppm		Mix Water Temperature:	72 °F			
Cement Temperature:	N/A	Plug Displaced by:	8.33lb/gal Fresh Water		Disp. Temperature:	72 °F			
Plug Bumped?	Yes	Bump Pressure:	2450 psi		Floats Held?	Yes			
Cement Returns:	N/A	Returns Density:	N/A		Returns Temperature:	N/A			
Comment: The plug bumped @ calculated displacement @ 2450 PSI, shutdown for 1 minute @ 2850 PSI. Held a 3000 PSI casing pressure test for 15 minutes. The floats held and received 4.25 BBLS back to the truck The sleeve opened @ 4860 PSI and pumped a 3 BBL wets shoe. The floats held and received 2.5 BBLS back to the truck. Total amount of 37 BBLS spacer returned to surface.									

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	3/7/2018	10:00:00	USER	CREW CALLED OUT AT 10:00 3/7/2018, REQUESTED ON LOCATION 16:00 3/7/2018. CREW PICKED UP CEMENT, CHEMICALS (55 GAL MUSOL A, 55 GAL DUAL SPACER B, 20 GAL D-AIR, 10 GAL MMCR), 100 LBS SUGAR, PLUG CONTAINER AND MANIFOLD FROM FORT LUPTON,CO. BULK 660: 12113644/10784082, BULK BACKUP AIR 660: 12477844/10025030, PUMP ELITE 11897034/11645460.
Event	2	Pre-Convoy Safety Meeting	Pre-Convoy Safety Meeting	3/7/2018	13:15:00	USER	DISCUSSED ROUTES, HAZARDS, AND COMMUNICATION WITH CREW.
Event	3	Crew Leave Yard	Crew Leave Yard	3/7/2018	14:30:00	USER	STARTED JOURNEY MANAGEMENT.
Event	4	Arrive At Loc	Arrive At Loc	3/7/2018	15:00:00	USER	END JOURNEY MANAGEMENT. MEET WITH CO. MAN TO DISCUSS JOB; SURFACE CASING: 9.625" 36# J-55 @ 1873', 5.5" CASING: 17# P-110 @ 15646.04', 10' SHOE JOINT, 8.5" OPEN HOLE, TVD @ 7401', 9.1 PPG WELL FLUID, FRESH WATER DISPLACEMENT.
Event	5	Pre-Rig Up Safety Meeting	Pre-Rig Up Safety Meeting	3/7/2018	15:10:00	USER	HAZARD HUNT. DISCUSSED POSSIBLE HAZARDS ASSOCIATED WITH LOCATION, RIG UP AND WEATHER.
Event	6	Rig-Up Equipment	Rig-Up Equipment	3/7/2018	15:15:00	USER	CREW STAGED EQUIPMENT AND RIGGED UP BULK, IRON, AND WATER HOSES TO PERFORM JOB.
Event	7	Event	Pre-Job Safety Meeting	3/7/2018	18:15:00	USER	MEETING WITH HALLIBURTON AND RIG PERSONNEL. COMMUNICATED POTENTIAL SAFETY HAZARDS AND JOB DETAILS.

Event	8	Start Job	Start Job	3/7/2018	18:54:45	COM6	BEGIN REOCRDRING JOB DATA.
Event	9	Test Lines	Test Lines	3/7/2018	18:57:29	COM6	PRESSURE TESTED IRON TO 5000 PSI. KICKOUTS SET @ 500 PSI, KICKED OUT @ 560 PSI, 5TH GEAR STALL OUT @ 1970 PSI.
Event	10	Pump Spacer 1	Pump Tuned Spacer @ 10.5 ppg	3/7/2018	19:04:07	COM6	PUMP 80 BBLs OF TUNED SPACER @ 10.5 LB/GAL, ADDED 55 GAL MUSOL A, 55 GAL DUAL SPACER B, 20 GAL D-AIR, DENSITY VERIFIED BY PRESSURIZED MUD SCALES.
Event	11	Drop Bottom Plug	Drop Bottom Plug	3/7/2018	19:17:57	USER	PLUG LEFT CONTAINER, VERIFIED BY CO. MAN.
Event	12	Pump Lead Cement	Pump Lead Cement @ 13.2 ppg	3/7/2018	19:25:07	COM6	PUMP 700 SKS OF ELASTICEM @ 13.2 LB/GAL, 1.57 YIELD, 7.53 GAL/SK, 196 BBLs, CALCULATED TOL @ 896', DENSITY VERIFIED BY PRESSURIZED MUD SCALES.
Event	13	Pump Tail Cement	Pump Tail Cement @ 13.5 ppg	3/7/2018	19:46:55	COM6	PUMP 1380 SKS OF ECONOCEM @ 13.5 LB/GAL, 1.68 YIELD, 7.99 GAL/SK, 413 BBLs, CALCULATED TOT @ 5530', DENSITY VERIFIED BY PRESSURIZED MUD SCALES.
Event	14	Shutdown	Shutdown	3/7/2018	20:39:15	COM6	SHUTDOWN TO WASH PUMPS/LINES AND DROP TOP PLUG.
Event	15	Drop Top Plug	Drop Top Plug	3/7/2018	20:46:45	COM6	PLUG LEFT CONTAINER, VERIFIED BY CO. MAN..
Event	16	Pump Displacement	Pump Fresh Water Displacement	3/7/2018	20:47:25	COM6	BEGIN CALCULATED DISPLACEMENT OF 363 BBLs WITH FRESH WATER. 10 GAL MMCR AND BIOCIDES ADDED TO 1ST 20 BBLs. BIOCIDES ADDED THROUGH REST OF DISPLACEMENT.
Event	17	Spacer Returns to Surface	Spacer Returns to Surface	3/7/2018	21:28:22	USER	SPACER RETURNED TO SURFACE @ 326 BBLs INTO DISPLACEMENT. TOTAL OF 37 BBLs SPACER TO SURFACE.
Event	18	Bump Plug	Bump Plug	3/7/2018	21:37:02	COM6	PLUG BUMPED AT CALCULATED DISPLACEMENT. PRESSURED 569 PSI OVER FINAL CIRCULATING PRESSURE OF 2450 PSI.

Event	19	Shutdown	Shutdown	3/7/2018	21:37:25	USER	SHUTDOWN FOR 1 MINUTE @ 2850 PSI.
Event	20	Pressure Up Well	Casing Pressure Test	3/7/2018	21:39:03	COM6	CASING PRESSURE TEST, 3000 PSI FOR 15 MINUTES.
Event	21	Check Floats	Check Floats	3/7/2018	21:55:33	USER	RELEASED PRESSURE, FLOATS HELD, 4.25 BBLS BACK.
Event	22	Other	Open Sleeve	3/7/2018	22:00:43	USER	PRESSURE UP TO OPEN SLEEVE. SLEEVE OPENED @ 4860 PSI.
Event	23	Pump Displacement	Pump Wet Shoe	3/7/2018	22:00:53	USER	PUMP 3 BBLS OF FRESH WATER FOR A WET SHOE.
Event	24	Check Floats	Check Floats	3/7/2018	22:02:27	USER	RELEASED PRESSURE, FLOATS HELD, 2.5 BBLS BACK.
Event	25	End Job	End Job	3/7/2018	22:03:53	COM6	STOP RECORDING JOB DATA.
Event	26	Pre-Rig Down Safety Meeting	Pre-Rig Down Safety Meeting	3/7/2018	22:10:00	USER	DISCUSSED POSSIBLE HAZARDS ASSOCIATED WITH WEATHER, LOCATION AND RIGGING DOWN IRON AND HOSES.
Event	27	Rig-Down Completed	Rig-Down Completed	3/7/2018	22:45:00	USER	ALL HALLIBURTON ITEMS WERE STOWED FOR TRAVEL, AND LOCATION WAS CLEAN.
Event	28	Pre-Convoy Safety Meeting	Pre-Convoy Safety Meeting	3/7/2018	22:55:00	USER	DISCUSSED ROUTES HAZARDS AND COMMUNICATION WITH CREW.

Event	29	Crew Leave Location	Crew Leave Location	3/7/2018	23:00:00	USER	THANK YOU FOR USING HALLIBURTON - BRYAN KRAFT AND CREW.
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3.0 Attachments

3.1 Job Chart

