

The Road to Excellence Starts with Safety

Sold To #: 300466		Ship To #: 3798679		Quote #: 0022354345		Sales Order #: 0904314659	
Customer: ANADARKO PETROLEUM CORP-EBUS				Customer Rep: Jackie Mckinley			
Well Name: RW			Well #: 26N-5HZ		API/UWI #: 05-123-44752-00		
Field: WATTENBERG		City (SAP): HUDSON		County/Parish: WELD		State: COLORADO	
Legal Description: SW SE-29-3N-65W-371FSL-1531FEL							
Contractor: Precision				Rig/Platform Name/Num: Precision 464			
Job BOM: 7523 7523							
Well Type: HORIZONTAL GAS							
Sales Person: HALAMERICA\HX41066				Srvc Supervisor: Aaron Smith			

Job

Formation Name			
Formation Depth (MD)	Top	Bottom	
Form Type	BHST		
Job depth MD	13405ft	Job Depth TVD	7035
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	1851	0	0
Casing		5.5	4.778	20	LTC	HCP110	0	13394	0	0
Open Hole Section			7.875				1851	13405	0	0

Tools and Accessories

Type	Size in	Qty	Make	Depth ft	Type	Size in	Qty	Make
Guide Shoe	5.5				Top Plug	5.5	1	WMF
Float Shoe	5.5	1	WCS	13394	Bottom Plug	5.5	1	WMF
Float Collar	5.5	1	WCS	13302	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	60	bbl	10.5	6.25				

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	ElastiCem - Cap Cement	ELASTICEM (TM) SYSTEM	150	sack	13.2	1.57		6	7.52	
7.52 Gal		FRESH WATER								
0.80 %		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	ElastiCem	ELASTICEM (TM) SYSTEM	390	sack	13.2	1.57		6	7.53	
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	EconoCem	ECONOCEM (TM) SYSTEM	810	sack	13.5	1.68		6	7.98	
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 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	
6	Biocide Water	Biocide Water	276.2	bbl	8.34					
Cement Left In Pipe		Amount	90 ft		Reason			Shoe Joint		
Comment TOLC 1134, TOPC 2096, TOTC 5625'. 12 bbls spacer 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	9/25/2017	20:00:00	USER	FOR ON LOCATION @ 0200, CREW HAD A PREVIOUS ON LOCATION TIME FOR ANOTHER JOB AT 2200
Event	2	Arrive at Location from Service Center	Arrive at Location from Service Center	9/26/2017	10:50:00	USER	WITH ALL EQUIPMENT AND MATERIALS. RIG CIRCULATING ON BOTTOM.
Event	3	Pre-Rig Up Safety Meeting	Pre-Rig Up Safety Meeting	9/26/2017	10:55:00	USER	JSA TO DISCUSS THE HAZARDS OF RIG-UP.
Event	4	Rig-Up Equipment	Rig-Up Equipment	9/26/2017	11:00:00	USER	RIG-UP ALL SURFACE LINES AND EQUIPMENT.
Event	5	Rig-Up Completed	Rig-Up Completed	9/26/2017	11:45:00	USER	WITH NO INCIDENTS OR INJURIES.
Event	6	Pre-Job Safety Meeting	Pre-Job Safety Meeting	9/26/2017	12:16:30	USER	WITH ALL ESSENTIAL PERSONNEL TO DISCUSS JOB PROCEDURE AND HAZARDS OF JOB PROCEDURE.
Event	7	Start Job	Start Job	9/26/2017	12:36:33	COM5	WITH WATER SUPPLIED FROM FRAC TANKS, WATER TESTED GOOD TO MIX CEMENT, PH 7.5, CL 88PPM, TEMP 62.
Event	8	Test Lines	Test Lines	9/26/2017	12:39:15	COM5	@5000 PSI
Event	9	Pump Spacer 1	Pump Spacer 1	9/26/2017	12:43:52	COM5	60 BBLS TUNED SPACER @ 10.5 PPG, 6.25 FT3/SK, 40.2 GAL/SK. 4 BPM 250 PSI.
Event	10	Drop Bottom Plug	Drop Bottom Plug	9/26/2017	13:04:08	COM5	PRE-LOADED WMF BOTTOM PLUG IN PLUG CONTAINER, VERIFIED BY CUSTOMER REP.
Event	11	Pump Lead Cement	Pump Lead Cement	9/26/2017	13:04:18	COM5	150 SKS (41..94 BBLS) ELASTICEM @13.2 PPG, 1.57 FT3/SK, 7.53 GAL/SK. 7 BPM 350 PSI. TOC
Event	12	Pump Cement	Pump Cement	9/26/2017	13:10:55	COM5	390 SKS (109.05 BBLS) ELASTICEM @ 13.2 PPG, 1.57 FT3/SK, 7.53 GAL/SK. VERIFIED

WITH PRESSURIZED SCALES. 7 BPM 350 PSI.

Event	13	Pump Tail Cement	Pump Tail Cement	9/26/2017	13:28:34	COM5	810 SKS (242.35 BBLS) ECONOCEM @13.5 PPG, 1.68 FT3/SK, 7.98 GAL/SK. VERIFIED WITH PRESSURIZED SCALES. 7.5 BPM 300 PSI.
Event	14	Shutdown	Shutdown	9/26/2017	14:07:44	COM5	TO BLOW LINES DOWN.
Event	15	Drop Top Plug	Drop Top Plug	9/26/2017	14:14:54	COM5	PRE-LOADED WMF TOP PLUG IN PLUG CONTAINER, VERIFIED BY CUSTOMER REP.
Event	16	Pump Displacement	Pump Displacement	9/26/2017	14:16:19	COM5	295.3 BBLS FRESH WATER, 10 GALLONS MMCR IN THE FIRST 20, BIOCIDES THROUGHOUT.
Event	17	Spacer Returns to Surface	Spacer Returns to Surface	9/26/2017	14:54:59	USER	@283 bbls displacement 12 bbls to surface.
Event	18	Bump Plug	Bump Plug	9/26/2017	14:59:18	COM5	@500 OVER
Event	19	Pressure Up Well	Pressure Up Well	9/26/2017	15:00:24	COM5	3000 PSI CASING TEST FOR 15 MINUTES.
Event	20	Comment	Comment	9/26/2017	15:07:22	USER	TOTC 5625, TOPC 2096', TOLC 1134'
Event	21	Check Floats	Check Floats	9/26/2017	15:16:33	USER	FLOATS GOOD, 3.5 BBLS BACK.
Event	22	End Job	End Job	9/26/2017	15:17:00	COM5	END RECORDING DATA.
Event	23	Pre-Rig Down Safety Meeting	Pre-Rig Down Safety Meeting	9/26/2017	15:20:00	USER	JSA TO DISCUSS THE HAZARDS OF RIG-DOWN
Event	24	Rig-Down Completed	Rig-Down Completed	9/26/2017	15:45:00	USER	WITH NO INCIDENTS OR INJURIES.

Event	25	Depart Location Safety Meeting	Depart Location Safety Meeting	9/26/2017	16:00:00	USER	JOURNEY MANAGEMENT MEETING HELD PRIOR TO DEPARTURE
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Event	26	Depart Location for Service Center or Other Site	Depart Location for Service Center or Other Site	9/26/2017	16:15:00	USER	THANK YOU FOR CHOOSING HALLIBURTON CEMENTING, AARON SMITH AND CREW
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3.0 Attachments

3.1 Job Chart



3.2 Case 1-Custom Results (1).png

