

The Road to Excellence Starts with Safety

Sold To #: 300466		Ship To #: 0003816745		Quote #: 0022380184		Sales Order #: 0904463790				
Customer: ANADARKO PETROLEUM CORP-EBUS				Customer Rep: David Cornett						
Well Name: ROBIN			Well #: 9-8HZ		API/UWI #: 05-123-45156-00					
Field: WATTENBERG		City (SAP): HUDSON		County/Parish: WELD		State: COLORADO				
Legal Description: SW SE-9-1N-65W-884FSL-2583FEL										
Contractor: Xtreme				Rig/Platform Name/Num: Xtreme 22						
Job BOM: 7523 7523										
Well Type: HORIZONTAL GAS										
Sales Person: HALAMERICA\HX41066				Srvc Supervisor: Nicholas Roles						
Job										
Formation Name										
Formation Depth (MD)		Top		Bottom						
Form Type				BHST						
Job depth MD		18247ft		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	1838	0	1838
Casing		5.5	4.892	17	LTC	HCP110	0	18247	0	7336
Open Hole Section			7.875				1838	18257	1838	7336
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			18247		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	6.25		4		
0.70 gal/bbl		DUAL SPACER SURFACTANT B, 5 GAL PAIL (100003665)								
0.25 gal/bbl		D-AIR 3000L, 5 GAL PAIL (101007444)								
0.70 gal/bbl		MUSOL A, 330 GAL TOTE - (790828)								

88.91 lbm/bbl		BARITE, BULK (100003681)							
35.80 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	ElastiCem Lead	ELASTICEM (TM) SYSTEM	630	sack	13.2	1.57		8	7.53
7.53 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	1320	sack	13.5	1.68		8	7.98
8 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			9.5	
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	403	bbl	8.34			9.5	
Cement Left In Pipe		Amount	0 ft		Reason			Wet Shoe	
Comment Got 56bbls spacer back to pits. Estimated TOT=5463', TOL#1=501'									

2.0 Real-Time Job Summary

2.1 Job Event Log

Type	Seq. No.	Activity	Graph Label	Date	Time	Source	Comb Pump Rate (bbl/min)	DS Pump Press (psi)	Recirc Density (ppg)	Comments
Event	1	Call Out	Call Out	12/1/2017	00:30:00	USER				Called out by Service Coordinator for O/L at 0030
Event	2	Depart Yard Safety Meeting	Depart Yard Safety Meeting	12/1/2017	04:15:00	USER				Held meeting with all personnel in convoy to discuss directions and hazards associated with drive, all fit to drive.
Event	3	Depart Location for Service Center or Other Site	Depart Location for Service Center or Other Site	12/1/2017	04:30:00	USER				Journey Management prior to departure
Event	4	Arrive at Location from Service Center	Arrive at Location from Service Center	12/1/2017	05:00:00	USER				Upon arrival met with company man to discuss job details and calculations, performed hazard hunt and site assessment.
Event	5	Other	Other	12/1/2017	05:15:00	USER				Water test- PH-6, Chlor-0, Temp-65. Cement temp-70.
Event	6	Pre-Rig Up Safety Meeting	Pre-Rig Up Safety Meeting	12/1/2017	05:30:00	USER				Discussed rigging up hazards and procedure according to HMS.
Event	7	Pre-Job Safety Meeting	Pre-Job Safety Meeting	12/1/2017	08:00:00	USER	0.00	-214.00	0.03	Held safety meeting with all job associated personnel to discuss job procedure, hazards and stop work authority.
Event	8	Start Job	Start Job	12/1/2017	08:52:43	COM4	0.00	-210.00	8.61	TD-18257', TP-18247' 5.5" 17#, WS Baffl-18244', TVD-7336', OH-7.875", SURF-1838' 9.625" 36#, MUD-

										9.6#
Event	9	Test Lines	Test Lines	12/1/2017	09:03:08	COM4	0.00	5530.00	10.30	Pumped 5bbls fresh water to fill lines, shutdown, closed manifold, performed 500psi k/o function test, continued with 5th gear stall at 1400psi, proceeded to bring pressure to 5500psi. Pressure stabilized and held with no leaks.
Event	10	Pump Spacer 1	Pump Spacer 1	12/1/2017	09:06:52	COM4	0.00	7.00	10.41	Pumped 80bbls of 10.5# 6.25Y 40.2g/s Tuned Spacer III with 55g Musol A, 55g Dual Spacer B, 20g D-Air at 4bpm 450psi.
Event	11	Start Job	Start Job	12/1/2017	09:21:16	COM4	0.00	63.00	10.05	Reset flecs control stand to try to fix downhole density, density was reading 2lbs heavier and out of calibration. Added Recirc Density to show the correct density going downhole.
Event	12	Check Weight	Check weight	12/1/2017	09:23:24	COM4	3.80	188.00	10.50	Weight verified with pressurized mud scales.
Event	13	Drop Top Plug	Drop Bottom Plug	12/1/2017	09:41:07	COM4	0.00	-4.00	12.97	Dropped by HES supervisor, witnessed by company man.
Event	14	Pump Lead Cement	Pump Lead Cement	12/1/2017	09:41:14	COM4	0.00	-4.00	12.96	Pumped 630sk or 176bbls of 13.2# 1.57y 7.54g/s Elasticem at 8bpm 560psi.
Event	15	Check Weight	Check Weight	12/1/2017	09:52:10	USER	8.00	664.00	13.21	Weight verified with pressurized mud scales.
Event	16	Pump Tail Cement	Pump Tail Cement	12/1/2017	10:07:45	COM4	6.30	188.00	13.68	Pumped 1320sk or 395bbls of 13.5# 1.68Y 7.98G/S Econocem at 8bpm 505psi.
Event	17	Check Weight	Check weight	12/1/2017	10:13:44	COM4	8.00	403.00	13.60	Weight verified with pressurized mud scales.

Event	18	Check Weight	Check weight	12/1/2017	10:20:48	COM4	8.00	419.00	13.55	Weight verified with pressurized mud scales.
Event	19	Check Weight	Check weight	12/1/2017	10:27:59	COM4				Weight verified with pressurized mud scales.
Event	20	Check Weight	Check weight	12/1/2017	10:35:57	COM4				Weight verified with pressurized mud scales.
Event	21	Check Weight	Check weight	12/1/2017	10:44:27	COM4				Weight verified with pressurized mud scales.
Event	22	Check Weight	Check weight	12/1/2017	10:49:13	COM4				Weight verified with pressurized mud scales.
Event	23	Drop Top Plug	Drop Top Plug	12/1/2017	11:14:08	COM4				Dropped by HES supervisor, witnessed by company man.
Event	24	Pump Displacement	Pump Displacement	12/1/2017	11:14:14	COM4				Pumped 423bbls fresh water with 10g MMCR in first 20bbls, followed with 5g biocide throughout at 10bpm.
Event	25	Bump Plug	Bump Plug	12/1/2017	12:06:00	COM4	0.00	2914.00	8.35	Slowed down at 400bbls away to 3bpm, Final Circulating Pressure- 2305psi, Bump Pressure- 2800psi. Brought pressure to 3000psi for 15min casing test.
Event	26	Pressure Up Well	Pressure Up Well	12/1/2017	12:21:00	USER	0.00	3327.00	8.36	Proceeded to bring pressure up to sheer at 4800psi, continued to pump 3bbls at 3bpm 2355psi for wet shoe.
Event	27	Check Floats	Check Floats	12/1/2017	12:23:27	USER	3.10	2380.00	8.36	Released pressure and got 3bbls back to truck.
Event	28	End Job	End Job	12/1/2017	12:25:57	COM4				Got 56bbls spacer back to pits. Estimated TOT-5463', TOL#1-501'
Event	29	Pre-Rig Down Safety	Pre-Rig Down Safety	12/1/2017	12:30:00	USER	0.00	-20.00	8.36	Discussed rigging down

		Meeting	Meeting				hazards and procedure according to HMS.
Event	30	Depart Location Safety Meeting	Depart Location Safety Meeting	12/1/2017	13:45:00	USER	Held meeting with all personnel in convoy to discuss directions and hazards associated with drive, all fit to drive.
Event	31	Depart Location for Service Center or Other Site	Depart Location for Service Center or Other Site	12/1/2017	14:00:00	USER	Pre journey management prior to departure.

3.0 Attachments

3.1 Anadarko Robin 9-8HZ Production Job Chart

