

The Road to Excellence Starts with Safety

Sold To #: 300466		Ship To #: 3911698		Quote #: 0022593636		Sales Order #: 0905779618				
Customer: ANADARKO PETROLEUM CORP-EBUS				Customer Rep: Joe Wallem						
Well Name: CARSON			Well #: 1-8HZ		API/UWI #: 05-123-48108-00					
Field: SPINDLE		City (SAP): DACONO		County/Parish: WELD		State: COLORADO				
Legal Description: SW SW-1-1N-68W-956FSL-505FWL										
Contractor: PRECISION DRLG				Rig/Platform Name/Num: PRECISION 461						
Job BOM: 7523 7523										
Well Type: HORIZONTAL GAS										
Sales Person: HALAMERICA\HX41066				Srv Supervisor: Michael Loughran						
Job										
Formation Name										
Formation Depth (MD)		Top		Bottom						
Form Type				BHST						
Job depth MD		18026ft		Job Depth TVD						
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	1841	0	1841
Casing		5.5	4.892	17	LTC	HCP110	0	18026	0	7767
Open Hole Section			7.875				1841	18035	1841	7767
Tools and Accessories										
Type	Size in	Qty	Make	Depth ft		Type	Size in	Qty	Make	
Guide Shoe	5.5					Top Plug	5.5	1	3 rd party	
Float Shoe	5.5			18035		Bottom Plug	5.5	1	3 rd party	
WSS	5.5			18013		SSR plug set	5.5			
Insert Float	5.5					Plug Container	5.5	1	HES	
Stage Tool	5.5					Centralizers	5.5			
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	FDP-C1337-18	SBM FDP-C1337-18 CEMENT SPACER SYS	80	bbl	10.5	6.17		4	
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	640	sack	13.2	1.56		6	7.73
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	1080	sack	13.5	1.68		8	7.99
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	398	bbl	8.34			8	
Cement Left In Pipe		Amount	0 ft		Reason			Wet Shoe	
Mix Water:		pH 6.5-7	Mix Water Chloride:		Less 200 ppm		Mix Water Temperature:		58°F
Cement Temperature:			Plug Displaced by:		8.33 lb/gal		Disp. Temperature:		
Plug Bumped?		Yes	Bump Pressure:		2750 psi		Floats Held?		Yes
Cement Returns:			Returns Density:				Returns Temperature:		
Comment Bump plug, 15 min casing test 3000 psi, 3 bbl wet shoe, Floats hold, 3 bbbl back, Good returns throughout job									

2.0 Real-Time Job Summary

2.1 Job Event Log

Type	Seq. No.	Activity	Graph Label	Date	Time	Source	DH Density (ppg)	Comb Pump Rate (bbl/min)	DS Pump Press (psi)	Comments
Event	1	Call Out	Call Out	6/20/2019	20:13:00	USER				Crew called out for on location time of 0300 hrs 6/20/2019
Event	2	Arrive At Loc	Arrive At Loc	6/21/2019	02:50:00	USER				Arrive at location, Rig on bottom, Meet with customer, TP 18026 17# P-110, WSS , TD 18035, 7.875 Hole, 1841' 9.625 J-55 36#, Top and bottom 3rd plugs provided by customer, 9.5 OBM, Water 58 Deg., PH 6.5-7, Chlorides and sulfates less that 200 ppm
Event	3	Pre-Rig Up Safety Meeting	Pre-Rig Up Safety Meeting	6/21/2019	03:00:00	USER				Pre rig up safety meeting
Event	4	Rig-Up Equipment	Rig-Up Equipment	6/21/2019	03:10:00	USER				Rig up all service lines and iron to buffer zone
Event	5	Pre-Job Safety Meeting	Pre-Job Safety Meeting	6/21/2019	06:00:00	USER	9.63	0.00	3.00	Discuss job procedures, Discuss job hazards and hazards of Halliburton Equipment.
Event	6	Start Job	Start Job	6/21/2019	06:10:59	COM6	9.73	0.00	3.00	Begin recording data
Event	7	Test Lines	Test Lines	6/21/2019	06:14:49	COM6	8.29	0.00	88.00	Pressure test 6500 psi
Event	8	Pump Spacer 1	Pump Spacer 1	6/21/2019	06:21:54	COM6	8.26	0.00	2.00	80 bbls. FDP-C1337-18 with 1 gal Biocide, 10.5 ppg, 6.17 yield, 39.6 gal/sack. Added 0.75 gal/bbl Musol, 0.75 gal/bbl Dual Spacer Surfactant B, .025 gal/bbl D-Air
Event	9	Drop Bottom Plug	Drop Bottom Plug	6/21/2019	06:43:15	COM6	10.44	2.10	111.00	Verified by CM
Event	10	Pump Lead Cement	Pump Lead Cement	6/21/2019	06:44:32	COM6	13.04	2.10	120.00	640 sacks GASSTOP B1 Lead Cement, 177.82 bbls., 13.2 ppg, 1.56 yield, 7.73 gal/sack
Event	11	Pump Tail Cement	Pump Tail Cement	6/21/2019	07:20:11	COM6	13.48	6.00	328.00	1080 sacks EconoCem, 323.14 bbls, 13.5 ppg, 1.68 yield, 7.99 gal/sack
Event	12	Shutdown	Shutdown	6/21/2019	08:12:54	COM6	13.48	0.10	103.00	Shutdown to wash pumps and lines
Event	13	Drop Top Plug	Drop Top Plug	6/21/2019	08:21:57	COM6	-1.81	0.00	4.00	Drop top plug verified by CM

Event	14	Pump Displacement	Pump Displacement	6/21/2019	08:22:15	COM6	-0.70	0.00	3.00	418 bbls fresh water displacement. 1st 20 bbls 10 gal Micro Matrix retarder, 4 gal Customer supplied Biocide throughout out displacement
Event	15	Bump Plug	Bump Plug	6/21/2019	09:26:29	COM6	8.19	0.00	2775.00	500 psi over FCP of 2225 psi, Bump to 2750 psi
Event	16	Other	Other	6/21/2019	09:27:38	COM6	8.20	0.00	2858.00	3000 psi casing test/15 min
Event	17	Other	Other	6/21/2019	09:45:41	COM6	8.27	0.00	3382.00	End 15 min casing test
Event	18	Other	Other	6/21/2019	09:48:03	COM6	8.16	0.00	1962.00	Pressure up to shift WSS. Shift Sleeve at 4710 psi. pump 3 bbl wet shoe, Shutdown, Check floats, 3 bbls back, Floats hold.
Event	19	End Job	End Job	6/21/2019	09:49:22	COM6	8.19	0.00	-4.00	Stop recording data. Calculated top of tail 2467', Good returns throughout job
Event	20	Pre-Rig Down Safety Meeting	Pre-Rig Down Safety Meeting	6/21/2019	09:55:00	USER				JSA safe rig down
Event	21	Rig-Down Equipment	Rig-Down Equipment	6/21/2019	10:00:00	USER				Rig down equipment
Event	22	Crew Leave Location	Crew Leave Location	6/21/2019	12:00:00	USER				Thanks for choosing Halliburton Energy Services!

3.0 Attachments

3.1 Carson 1-8HZ Production – Job Chart

