

HALLIBURTON

Cementing Job Summary

The Road to Excellence Starts with Safety

Sold To #: 300466	Ship To #: 3782408	Quote #: 0022393180	Sales Order #: 0904560999							
Customer: ANADARKO PETROLEUM CORP-EBUS		Customer Rep: ALBERT								
Well Name: LEINWEBER FED	Well #: 30N-8HZ	API/UWI #: 05-123-44201-00								
Field: WATTENBERG	City (SAP): IONE	County/Parish: WELD	State: COLORADO							
Legal Description: NE NE-11-1N-67W-458FNL-380FEL										
Contractor: Xtreme		Rig/Platform Name/Num: Xtreme 22								
Job BOM: 7523 7523										
Well Type: HORIZONTAL GAS										
Sales Person: HALAMERICA\HX41066		Srvc Supervisor: Jordan Larue								
Job										
Formation Name										
Formation Depth (MD)	Top	Bottom								
Form Type	BHST									
Job depth MD	18455ft	Job Depth TVD	7335FT							
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	1835	0	1835
Casing		5.5	4.892	17	LTC	HCP110	0	18488	0	7338
Open Hole Section			8.5				1835	18498	1835	7338
Tools and Accessories										
Type	Size in	Qty	Make	Depth ft		Type	Size in	Qty	Make	
Guide Shoe	5.5			18455		Top Plug	5.5	1	WF	
Float Shoe	5.5					Bottom Plug	5.5	1	WF	
Float Collar	5.5					SSR plug set	5.5		HES	
Insert Float	5.5	1	WF	18435		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 ft ³ /sack	Mix Fluid Gal	Rate bbl/min	Total Mix Fluid Gal	
1	Tuned Spacer III	Tuned Spacer III	80	bbl	10.5	6.25				
37.58 gal/bbl		FRESH WATER								
0.70 gal/bbl		DUAL SPACER SURFACTANT B, 5 GAL PAIL (100003665)								
0.50 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)								

last updated on 1/29/2018 11:43:26 AM

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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	ELASTICEM (TM) SYSTEM	780	sack	13.2	1.57	7.53	8	7.53
0.10 %		SUPER CBL, 50 LB PAIL (100003668)							
0.45 %		SCR-100 (100003749)							
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	1780	sack	13.5	1.68	7.99	8	7.99
7.99 Gal		FRESH WATER							
0.35 %		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	10	bbl	8.34			11	
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	419	bbl	8.34			8	
Cement Left In Pipe		Amount	0 ft		Reason			WET Shoe Joint	
Mix Water: pH 7		Mix Water Chloride:	400 ppm		Mix Water Temperature:		50 °F		
Cement Temperature: ## °F °C		Plug Displaced by:	8.33		Disp. Temperature:		## °F °C		
Plug Bumped? Yes		Bump Pressure:	2950 psi		Floats Held?		Yes 2.5BBLs BACK		
Cement Returns: ## bbl m3		Returns Density:	10.5 lb/gal kg/m3		Returns Temperature:		## °F °C		
Comment : 30BBLs SPACER BACK									

2.0 Real-Time Job Summary

2.1 Job Event Log

Type	Seq. No.	Activity	Graph Label	Date	Time	Source	Driv-Side Pump Pressure (psi)	Downhole Density (ppg)	Combined Pump Rate (bbl/min)	Comments
Event	1	Call Out	Call Out	1/16/2018	20:00:00	USER				requested location time 0400
Event	2	Arrive at Location from Service Center	Arrive at Location from Service Center	1/17/2018	01:00:00	USER				rig running casing
Event	3	Assessment Of Location Safety Meeting	Assessment Of Location Safety Meeting	1/17/2018	01:10:00	USER				walked for hazards and discussed figures with albert
Event	4	Pre-Rig Up Safety Meeting	Pre-Rig Up Safety Meeting	1/17/2018	02:00:00	USER				review jsa
Event	5	Rig-Up Equipment	Rig-Up Equipment	1/17/2018	02:15:00	USER				no injuries
Event	6	Pre-Job Safety Meeting	Pre-Job Safety Meeting	1/17/2018	08:00:00	USER	52.00	8.12	0.60	review jsa/ pump schedule
Event	7	Prime Pumps	Prime Pumps	1/17/2018	08:08:22	COM10	49.00	8.05	0.00	prime pumps/ start job
Event	8	Test Lines	Test Lines	1/17/2018	08:13:43	COM10	6323.00	8.56	0.00	500 psi test ko... 6500 psi test good
Event	9	Pump Spacer 1	Pump Spacer 1	1/17/2018	08:20:00	COM10	375.00	11.43	6.10	80 bbls scaled @ 10.5#
Event	10	Drop Bottom Plug	Drop Bottom Plug	1/17/2018	08:37:18	USER	4.00	13.46	0.00	bottom plug went
Event	11	Pump Lead Cement	Pump Lead Cement	1/17/2018	08:38:27	COM10	3.00	13.08	0.00	780 sks scaled @ 13.2#/218 bbls
Event	12	Pump Tail Cement	Pump Tail Cement	1/17/2018	09:08:12	COM10	350.00	13.43	8.00	1780 sks scaled @ 13.5#/ 532 bbls
Event	13	Pump Displacement	Pump Displacement	1/17/2018	10:22:56	COM10	78.00	8.08	5.40	429bbls h20 w/ mmcr & biocide... final lift psi @ 2450 psi... tuned spacer called @ 399 bbls gone 30bbls to surface
Event	14	Drop Top Plug	Drop Top Plug	1/17/2018	10:23:02	COM10	79.00	8.08	5.40	wash pumps and lines blew air through iron... dropped top plug plu went
Event	15	Bump Plug	Bump Plug	1/17/2018	11:16:14	COM10	2958.00	7.88	0.00	2950 psi held for 10min casing test bled psi off floats held
Event	16	Other	Other	1/17/2018	11:26:25	COM10	33.00	8.21	0.00	pumped 5bpm till wet shoe sub sheer @ 4650 psi
Event	17	Other	Other	1/17/2018	11:28:10	COM10	3228.00	8.05	4.90	pumped 5bpm 5bbls into wet shoe per design

Event	18	Other	Other	1/17/2018	11:29:24	COM10	2286.00	7.98	0.00	check floats they held 2.5bbls back
Event	19	End Job	End Job	1/17/2018	11:30:29	COM10	18.00	8.13	0.00	end job
Event	20	Pre-Rig Down Safety Meeting	Pre-Rig Down Safety Meeting	1/17/2018	11:35:00	USER	17.00	8.11	0.00	review jsa
Event	21	Rig-Down Equipment	Rig-Down Equipment	1/17/2018	11:45:00	USER	33.00	0.07	18.60	no injures
Event	22	Crew Leave Location	Crew Leave Location	1/17/2018	14:00:00	USER				taking nap on lease rd

3.0 Attachments

3.1 Custom Results – Job Chart with Events

