

The Road to Excellence Starts with Safety

Sold To #: 300466		Ship To #: 0003782432		Quote #: 0022390701		Sales Order #: 0904532113				
Customer: ANADARKO PETROLEUM CORP-EBUS				Customer Rep: DAVID CORNETT						
Well Name: LEINWEBER FED			Well #: 4C-8HZ		API/UWI #: 05-123-44205-00					
Field: WATTENBERG		City (SAP): IONE		County/Parish: WELD		State: COLORADO				
Legal Description: NE NE-11-1N-67W-458FNL-335FEL										
Contractor: Xtreme				Rig/Platform Name/Num: Xtreme 22						
Job BOM: 7523 7523										
Well Type: HORIZONTAL GAS										
Sales Person: HALAMERICA\HX41066				Srv Supervisor: Vitali Neverdasov						
Job										
Formation Name										
Formation Depth (MD)		Top		Bottom						
Form Type				BHST						
Job depth MD		18649ft		Job Depth TVD		7501				
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	1867	0	1867
Casing	0	5.5	4.892	17	LTC	HCP110	0	18649	0	0
Open Hole Section			8.5				1867	18656	1867	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	N/A	
Float Shoe	5.5	1	N/A	18649		Bottom Plug	5.5	1	N/A	
Float Collar	5.5	1	N/A	18646		SSR plug set	5.5			
Insert Float	5.5					Plug Container	5.5	1	HES	
Stage Tool	5.5					Centralizers	5.5	270	N/A	
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				
37.58 gal/bbl		FRESH WATER								
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)							
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		4	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	1800	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			8	
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	413	bbl	8.34			8	
Cement Left In Pipe		Amount	0 FT		Reason			WET SHOE	
Comment: ESTIMATED TOP OF TAIL @ 5448. TOP OF LEAD @ 375'. 62 BBLS OF SPACER BACK TO SURFACE.									

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)	PS Pump Press (psi)	Comments
Event	1	Call Out	Call Out	1/2/2018	13:00:00	USER				ON LOCATION TIME @ 19:00
Event	2	Depart Yard Safety Meeting	Depart Yard Safety Meeting	1/2/2018	18:20:00	USER				HELD JSA PRIOR LEAVING THE YARD
Event	3	Depart Shop for Location	Depart Shop for Location	1/2/2018	18:37:00	USER				CALLED JORNEY
Event	4	Arrive at Rig	Arrive at Rig	1/2/2018	18:58:00	USER				6 MILES. DISCUSS NUMBERS AND PROCEDURE WITH CUSTOMER. RIG IS RUNNING CASING.
Event	5	Other	Other	1/2/2018	19:05:00	USER				SPOT TRUCKS
Event	6	Safety Meeting - Pre Rig-Up	Safety Meeting - Pre Rig-Up	1/2/2018	19:25:00	USER				RIG UP SAFETY MEETING
Event	7	Casing on Bottom	Casing on Bottom	1/2/2018	19:30:00	USER				
Event	8	Safety Meeting - Pre Job	Safety Meeting - Pre Job	1/2/2018	22:27:00	USER	0.36	0.00	3.00	HELD JSA WITH ALL PERSONAL INVOLVED IN CEMENT JOB
Event	9	Start Job	Start Job	1/2/2018	23:16:56	COM4	8.30	3.90	50.00	
Event	10	Pressure Test	Pressure Test	1/2/2018	23:26:00	USER	8.54	0.00	4565.00	LOAD AND TEST LINE @ 5653 PSI
Event	11	Pump Spacer	Pump Spacer	1/2/2018	23:31:00	USER	10.68	2.70	230.00	BATCH/WEIGH/PUMP 80 BBLS OF TUNED SPACER WITH SURFACTANTS @ 10.5 PPG
Event	12	Drop Bottom Plug	Drop Bottom Plug	1/2/2018	23:57:00	USER	11.36	0.00	-2.00	SHUT DOWN/ DROP BOTTOM PLUG

Event	13	Pump Lead Cement	Pump Lead Cement	1/2/2018	23:59:00	USER	10.59	2.50	55.00	BATCH/WEIGH/PUMP 780 SKS (218.1 BBLS) OF ELASTICEM @ 13.2 PPG
Event	14	Pump Tail Cement	Pump Tail Cement	1/3/2018	01:05:00	USER	13.25	4.00	163.00	WEIGH/PUMP 1800 SKS (538.6 BBLS) OF ECONOCEM @ 13.5 PPG
Event	15	Shutdown	Shutdown	1/3/2018	02:27:59	USER	13.92	0.00	-2.00	WASH UP PUMPS AND LINES
Event	16	Drop Top Plug	Drop Top Plug	1/3/2018	02:36:00	USER	0.53	0.00	0.00	
Event	17	Pump Displacement	Pump Displacement	1/3/2018	02:38:00	USER	0.45	0.00	-4.00	FIRST 20 BBLS WITH MMCR + BIOCID. TOTAL DISPLACEMENT 433 BBLS. 62 BBLS OF SPACER BACK TO SURFACE.
Event	18	Bump Plug	Bump Plug	1/3/2018	03:30:54	USER	8.56	0.00	3297.00	BUMP PLUG 3118 PSI WITH 500 PSI OVER FINAL CIRCULATING PRESSURE OF 2720 PSI.PER CUSTOMER HOLD PRESSURE FOR 15 MIN CASING TEST
Event	19	Other	Other	1/3/2018	03:44:33	USER	8.61	1.90	4621.00	BURST WET SHOE SUB @ 4450 PSI AND PUMP 3 BBLS WET SHOE.
Event	20	Shutdown	Shutdown	1/3/2018	03:46:00	USER	8.59	2.30	3398.00	
Event	21	Check Floats	Check Floats	1/3/2018	03:47:00	USER	8.55	0.00	2358.00	FLOATS HELD
Event	22	End Job	End Job	1/3/2018	03:49:53	COM4	8.52	0.00	-5.00	
Event	23	Safety Meeting - Pre Rig-Down	Safety Meeting - Pre Rig-Down	1/3/2018	03:53:00	USER	8.50	0.00	-6.00	HELD PRE RIG DOWN JSA
Event	24	Depart Location Safety Meeting	Depart Location Safety Meeting	1/3/2018	05:10:00	USER				

3.0 Attachments

3.1 Leinweber Fed 4C-8HZ Production Job Chart

