

HALLIBURTON

WILLIAMS PRODUCTION RMT INC - EBUS

TR 11-1-698
TRAIL RIDGE
Garfield County , Colorado

Cement Surface Casing

11-Sep-2011

Job Site Documents

The Road to Excellence Starts with Safety

Sold To #: 300721	Ship To #: 2876572	Quote #:	Sales Order #: 8449118
Customer: WILLIAMS PRODUCTION RMT INC - EBUS	Customer Rep: Oaks, Rick		
Well Name: TR	Well #: 11-1-698	API/UWI #: 05-045-15973	
Field: TRAIL RIDGE	City (SAP): PARACHUTE	County/Parish: Garfield	State: Colorado
Lat: N 39.562 deg. OR N 39 deg. 33 min. 41.976 secs.	Long: W 108.285 deg. OR W -109 deg. 42 min. 53.42 secs.		
Contractor: H&P 278	Rig/Platform Name/Num: H&P 278		
Job Purpose: Cement Surface Casing			
Well Type: Development Well	Job Type: Cement Surface Casing		
Sales Person: KOHL, KYLE	Srv Supervisor: SMITH, CHRISTOPHER	MBU ID Emp #: 452619	

Job Personnel

HES Emp Name	Exp Hrs	Emp #	HES Emp Name	Exp Hrs	Emp #	HES Emp Name	Exp Hrs	Emp #
ANGLESTEIN, TROY Edward WM	5	436099	EICKHOFF, ROBERT Edward	16	495311	FUCHS, ALEXANDER Arndt	16	479705
HAYES, JESSE Doug	16	403601	JAMISON, PRICE W	13	229155	JENSEN, JESSE Robert	8	478774
LYNGSTAD, FREDRICK D	16	403742	PHILLIPS, MARK Bejar	5	445272	PORTER, MICHAEL James	16	491145
SMITH, CHRISTOPHER Scott	16	452619	VANALSTYNE, TROY L	13	420256			

Equipment

HES Unit #	Distance-1 way	HES Unit #	Distance-1 way	HES Unit #	Distance-1 way	HES Unit #	Distance-1 way
10744648C	90 mile	10804487	90 mile	10998508	90 mile	11259882	90 mile
11710582	90 mile						

Job Hours

Date	On Location Hours	Operating Hours	Date	On Location Hours	Operating Hours	Date	On Location Hours	Operating Hours
09.10.2011	14	8	09.11.2011	3.5	2			
TOTAL			Total is the sum of each column separately					

Job

Formation Name	Top	Bottom	Job Depth MD	Job Depth TVD	Water Depth	Perforation Depth (MD)	From	To
	0	2620	2628. ft	2628. ft	4. ft			
Formation Depth (MD)								
Form Type								
Job depth MD								
Water Depth								
Perforation Depth (MD)								

Well Data

Description	New / Used	Max pressure psig	Size in	ID in	Weight lbm/ft	Thread	Grade	Top MD ft	Bottom MD ft	Top TVD ft	Bottom TVD ft
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Sales/Rental/3rd Party (HES)

Description	Qty	Qty uom	Depth	Supplier
PLUG,CMTG,TOP,9 5/8,HWE,8.16 MIN/9.06 MA	1	EA		

Tools and Accessories

Type	Size	Qty	Make	Depth	Type	Size	Qty	Make	Depth	Type	Size	Qty	Make
Guide Shoe					Packer					Top Plug	9.625	1	HES
Float Shoe					Bridge Plug					Bottom Plug			
Float Collar					Retainer					SSR plug set			
Insert Float										Plug Container	9.625	1	HES
Stage Tool										Centralizers			

Miscellaneous Materials

Gelling Agt	Conc	Surfactant	Conc	Acid Type	Qty	Conc	%
Treatment Fld	Conc	Inhibitor	Conc	Sand Type	Size	Qty	

Fluid Data

Stage/Plug #: 1									
Fluid #	Stage Type	Fluid Name	Qty	Qty uom	Mixing Density lbm/gal	Yield ft ³ /sk	Mix Fluid Gal/sk	Rate bbl/min	Total Mix Fluid Gal/sk
1	Fresh Water		10.00	bbl	8.34	.0	.0	5	
2	SUPER FLUSH - XLC	SUPERFLUSH-XLC - SBM (549694)	50.00	bbl	11.	.0	.0	5	
3	Fresh Water		10.00	bbl	8.33	.0	.0	5	
4	Lead Cement	EXTENDACEM (TM) SYSTEM (452981)	1100.0	sacks	12.3	2.23	12.21	5	12.21
		12.21 Gal FRESH WATER							
5	Tail Cement	EXTENDACEM (TM) SYSTEM (452981)	250.0	sacks	12.6	2.07	11.04		11.04
		11.04 Gal FRESH WATER							
6	Displacement		199.00	bbl	8.34	.0	.0	5	
7	SUPER FLUSH 100	SUPER FLUSH 100 - SBM (12191)	27.00	bbl	11.7	.0	.0	5	
8	Topout Cement	HALCEM (TM) SYSTEM (452986)	200.0	sacks	15.8	1.15	5.0	2	5.0
		5 Gal FRESH WATER							
Calculated Values		Pressures		Volumes					
Displacement	199	Shut In: Instant		Lost Returns		Cement Slurry	529	Pad	
Top Of Cement		5 Min		Cement Returns	0	Actual Displacement	199	Treatment	
Frac Gradient		15 Min		Spacers	70	Load and Breakdown		Total Job	798
Rates									
Circulating	RIG	Mixing	5	Displacement	5	Avg. Job	5		
Cement Left In Pipe	Amount	42.24ft	Reason	Shoe Joint					
Frac Ring # 1 @	ID	Frac ring # 2 @	ID	Frac Ring # 3 @	ID	Frac Ring # 4 @	ID		
The Information Stated Herein Is Correct				Customer Representative Signature					

The Road to Excellence Starts with Safety

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Field: TRAIL RIDGE	City (SAP): PARACHUTE	County/Parish: Garfield	State: Colorado
Legal Description:			
Lat: N 39.562 deg. OR N 39 deg. 33 min. 41.976 secs.		Long: W 108.285 deg. OR W -109 deg. 42 min. 53.42 secs.	
Contractor: H&P 278	Rig/Platform Name/Num: H&P 278		
Job Purpose: Cement Surface Casing		Ticket Amount:	
Well Type: Development Well	Job Type: Cement Surface Casing		
Sales Person: KOHL, KYLE	Srv Supervisor: SMITH, CHRISTOPHER	MBU ID Emp #: 452619	

Activity Description	Date/Time	Cht #	Rate bbl/min	Volume bbl		Pressure psig		Comments
				Stage	Total	Tubing	Casing	
Pre-Convoy Safety Meeting	09/10/2011 02:30							ALL HES PERSONEL
Crew Leave Yard	09/10/2011 02:45							
Arrive At Loc	09/10/2011 10:00							RIG RUNNING CASEING.
Assessment Of Location Safety Meeting	09/10/2011 10:15							ALL HES PERSONEL
Pre-Job Safety Meeting	09/10/2011 11:55							ALL HES PERSONEL AND RIG CREW
Rig-Up Equipment	09/10/2011 13:30							
Start Job	09/10/2011 14:19							STARTED WITH TOPPING OUT WELL NUMBER TR 12-1-698 AND TR 412-1-698, 9.625" SURFACE TD 2628', TP 2628', SJ 42.24', OH 14.75", CSG 9.625" 36# J-55 , MUD 9.5 PPG.
Other	09/10/2011 14:19			1				FILL LINES WITH 6X5
Pressure Test	09/10/2011 14:21		0.5	0.5				TEST, ALL LINES HELD PRESSURE @ 1072 PSI
Pump Cement	09/10/2011 14:30		2.5	9			50.0	TOP OUT 1 TR 12-1-698, G NEAT, 44 SKS, 15.8 PPG, 1.15 FT3/SK/ 5 GAL/SK. 2% CACL2, SUPERFLUSH POURED DOWN BACKSIDE MIXING WITH CEMENT.

Cementing Job Log

Activity Description	Date/Time	Cht #	Rate bbl/min	Volume bbl		Pressure psig		Comments
				Stage	Total	Tubing	Casing	
Other	09/10/2011 15:31			1				FILL LINES WITH 6X5
Pressure Test	09/10/2011 15:31		0.5	0.5				TEST, ALL LINES HELD PRESSURE @ 1020 PSI
Pump Cement	09/10/2011 15:37		3.5	15			25.0	TOP OUT 1 TR 412-1-698, G NEAT, 73 SKS, 15.8 PPG, 1.15 FT3/SK/ 5 GAL/SK. 2% CACL2, SUPERFLUSH POURED DOWN BACKSIDE MIXING WITH CEMENT.
Shutdown	09/10/2011 15:42							SHUTDOWN, CEMENT ON TRUCK, CALL FOR NEW TRUCK.
Clean Lines	09/10/2011 15:43							CLEAN LINES TO PIT.
Other	09/10/2011 19:12		2	2			28.0	FILL LINES
Pressure Test	09/10/2011 19:15		0.5	0.5				LOW TEST, ALL LINES HELD PRESSURE @ 1160 PSI
Pressure Test	09/10/2011 19:17		0.5	0.5				HIGH TEST, ALL LINES HELD PRESSURE @ 2560 PSI
Pump Spacer 1	09/10/2011 19:19		4	10			80.0	FRESH WATER
Pump Spacer 2	09/10/2011 19:26		4	50			135.0	SUPERFLUSH XLC
Pump Spacer 1	09/10/2011 19:35		4	10			150.0	FRESH WATER
Pump Lead Cement	09/10/2011 19:37		4	437			480.0	1100 SKS, 12.3 PPG, 2.23 FT3/SK, 12.21 GAL/SK, SET UP TIME 4:27 @ 70 BC.
Pump Tail Cement	09/10/2011 20:48		4	92			230.0	160 SKS, 12.6 PPG, 2.07 FT3/ SK, 11.04 GAL/SK, SET UP TIME 2:37 @ 70 BC
Shutdown	09/10/2011 21:05							
Drop Top Plug	09/10/2011 21:05							PLUG WENT
Pump Displacement	09/10/2011 21:07		4	189.9			411.0	FRESH WATER
Slow Rate	09/10/2011 21:45		2	10			280.0	

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Quote #:

Sales Order #: 8449118

SUMMIT Version: 7.2.27

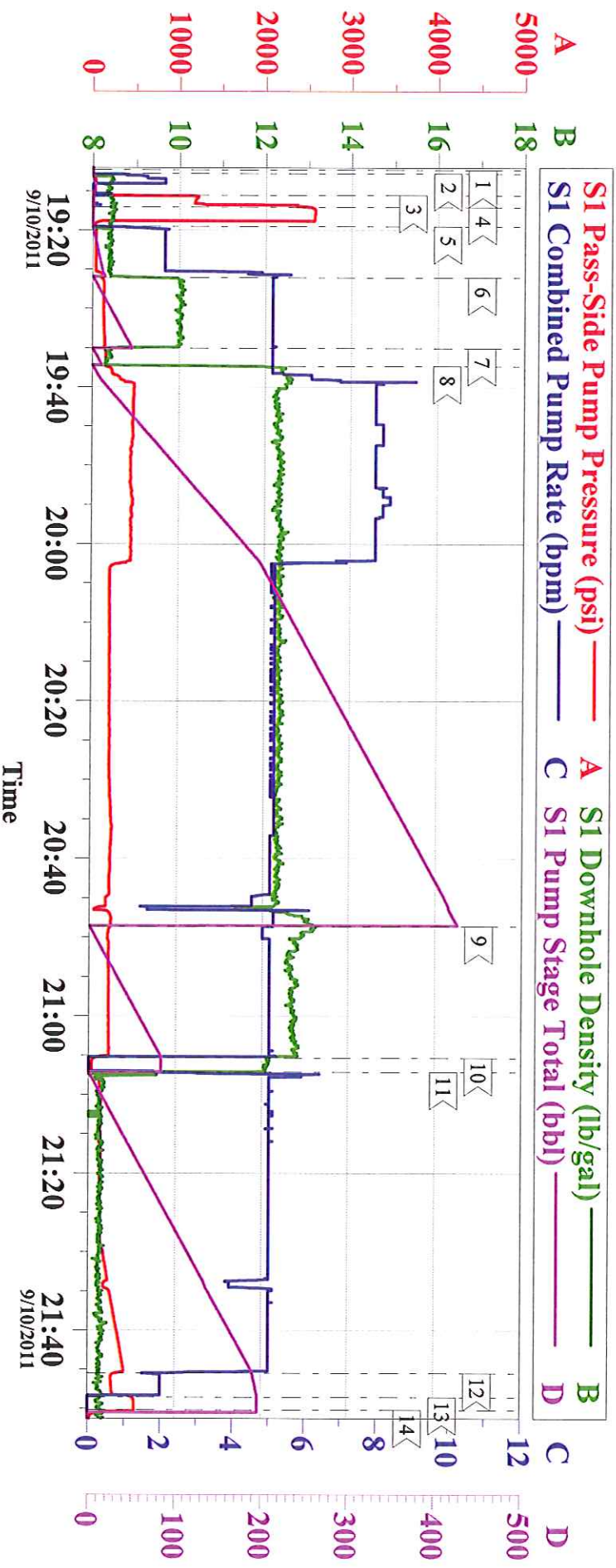
Sunday, September 11, 2011 02:43:00

Cementing Job Log

Activity Description	Date/Time	Cht #	Rate bbl/min	Volume bbl		Pressure psig		Comments
				Stage	Total	Tubing	Casing	
Bump Plug	09/10/2011 21:48						550.0	PLUG BUMPED
Check Floats	09/10/2011 21:50							FLOATS HELD
Other	09/10/2011 21:58		2	10			31.0	PUMP DOWN PARASITE WITH SUGAR WATER
Other	09/11/2011 00:30							FILL LINES
Pump Cement	09/11/2011 00:32		3	26			65.0	TOP OUT 1 TR 11-1-698, G NEAT, 127 SKS, 15.8 PPG, 1.15 FT3/SK/ 5 GAL/SK. 2% CACL2, SUPERFLUSH POURED DOWN BACKSIDE MIXING WITH CEMENT.
Shutdown	09/11/2011 00:43							
Clean Lines	09/11/2011 00:44							CLEAN LINES TO PIT
End Job	09/11/2011 00:52							NO CIRCULATION THROUGHOUT SURFACE JOB, 0 BBLS OF CEMENT TO SURFACE, PIPE WAS NOT MOVED DURING SURFACE JOB. WELL SAT STATIC FOR TWO HOURS WAITING ON NEW HES PUMP.
Post-Job Safety Meeting (Pre Rig-Down)	09/11/2011 02:00							ALL HES PERSONEL, WAIT ON COMP REP TO RELEASE CREW
Rig-Down Completed	09/11/2011 03:00							
Depart Location Safety Meeting	09/11/2011 03:15							ALL HES PERSONEL
Crew Leave Location	09/11/2011 03:30							
Other	09/11/2011 03:33							THANK YOU FOR CHOOSING HALLIBURTON, CHRIS SMITH AND CREW

WILLIAMS

9.625" SURFACE/ TR 11-1-698



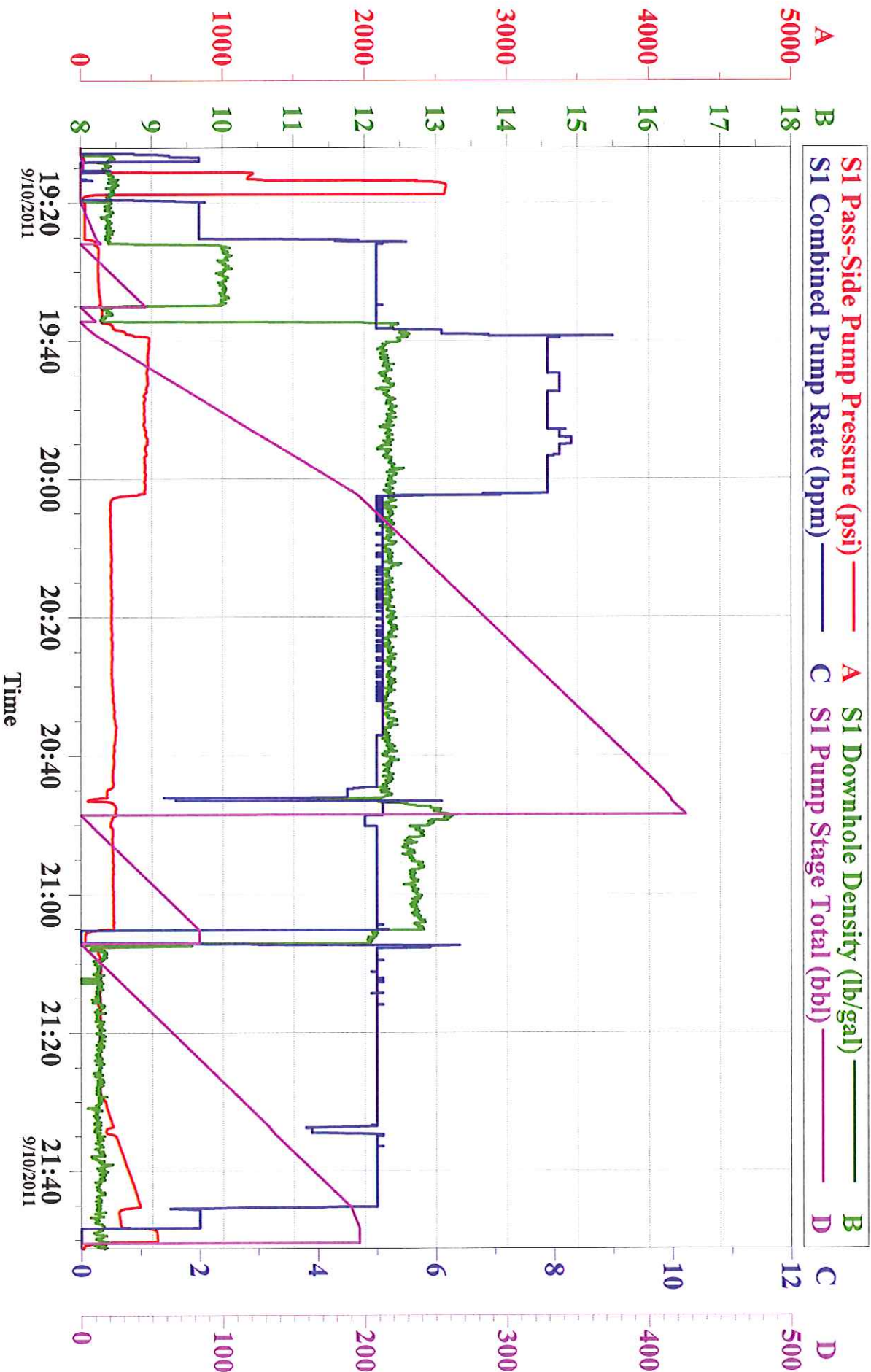
Local Event Log

Maximum		Maximum	
	SPPP		SPPP
1 < START JOB	19:12:19 0.000	2 < FILL LINES	19:12:46 27.00
3 < TEST LINES (LOW)	19:15:33 2500	4 < TEST LINES (HIGH)	19:17:03 2574
5 < H2O SPACER	19:19:31 126.0	6 < SUPERFLUSH XLC	19:26:03 143.0
7 < H2O SPACER	19:35:03 158.6	8 < LEAD CEMENT	19:37:22 485.0
9 < TAIL CEMENT	20:48:36 250.0	10 < SHUTDOWN/DROP PLUG	21:05:21 63.00
11 < H2O DISPLACEMENT	21:07:08 414.0	12 < SLOW RATE	21:45:29 513.2
13 < BUMP PLUG	21:48:32 534.0	14 < CHECK FLOATS	21:50:10 632.0

Customer: WILLIAMS PRODUCTION RMT INC - EBUS Well Description: TR 11-1-698 Customer Rep:	Job Date: 10-Sep-2011 Job type: 05-045-15973 Service Supervisor:	Sales Order #: 8449118 ADC Used: Operator/ Pump:
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WILLIAMS

9.625" SURFACE/ TR 11-1-698



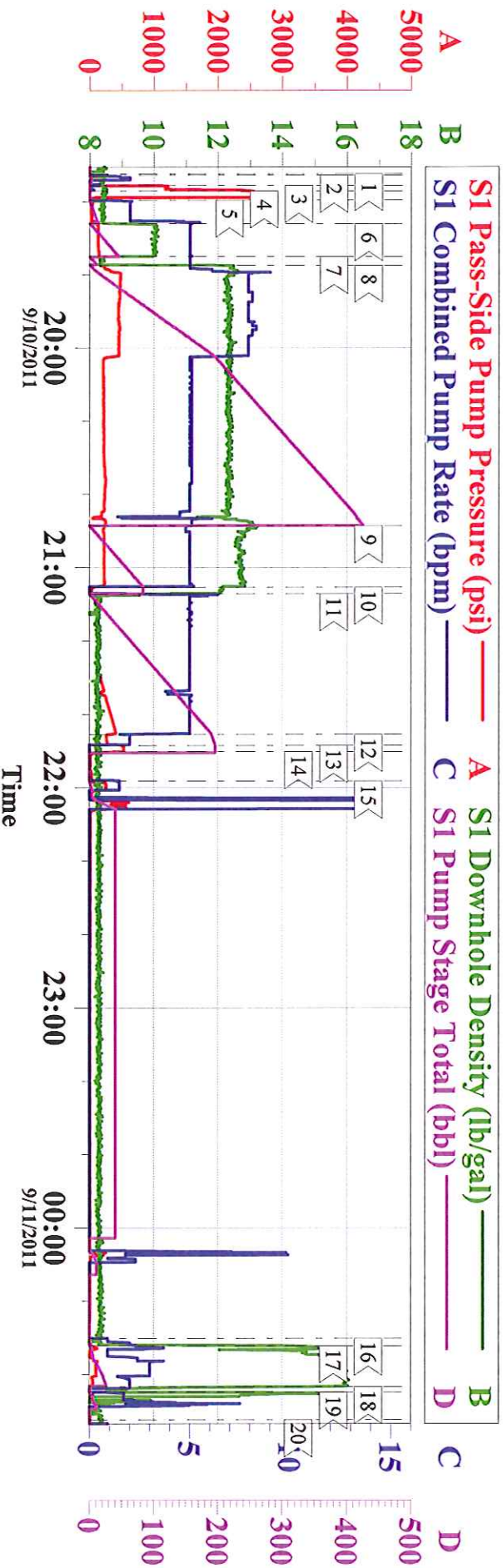
Customer: WILLIAMS PRODUCTION RMT INC - EBUS
 Well Description: TR 11-1-698
 Customer Rep:

Job Date: 10-Sep-2011
 Job type: 05-045-15973
 Service Supervisor:

Sales Order #: 8449118
 ADC Used:
 Operator/ Pump:

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 10-Sep-11 22:31

WILLIAMS TOP OUT I/ TR 11-1-698



Local Event Log

Maximum		SPPP		Maximum		SPPP	
1	START JOB	9/10/2011 19:12:19	0.000	2	FILL LINES	9/10/2011 19:12:46	27.00
3	TEST LINES (LOW)	9/10/2011 19:15:33	2500	4	TEST LINES (HIGH)	9/10/2011 19:17:03	2574
5	H2O SPACER	9/10/2011 19:19:31	126.0	6	SUPERFLUSH XLC	9/10/2011 19:26:03	143.0
7	H2O SPACER	9/10/2011 19:35:03	158.6	8	LEAD CEMENT	9/10/2011 19:37:22	485.0
9	TAIL CEMENT	9/10/2011 20:48:36	250.0	10	SHUTDOWN/DROP PLUG	9/10/2011 21:05:21	63.00
11	H2O DISPLACEMENT	9/10/2011 21:07:08	414.0	12	SLOW RATE	9/10/2011 21:45:29	513.2
13	BUMP PLUG	9/10/2011 21:48:32	534.0	14	CHECK FLOATS	9/10/2011 21:50:10	534.0
15	PUMP PARASITE	9/10/2011 21:58:16	632.0	16	FILL LINES	9/11/2011 00:30:10	28.70
17	PUMP CEMENT	9/11/2011 00:32:11	120.0	18	SHUTDOWN	9/11/2011 00:43:23	11.00
19	CLEAN LINES	9/11/2011 00:44:51	178.0	20	END JOB	9/11/2011 00:52:25	101.0

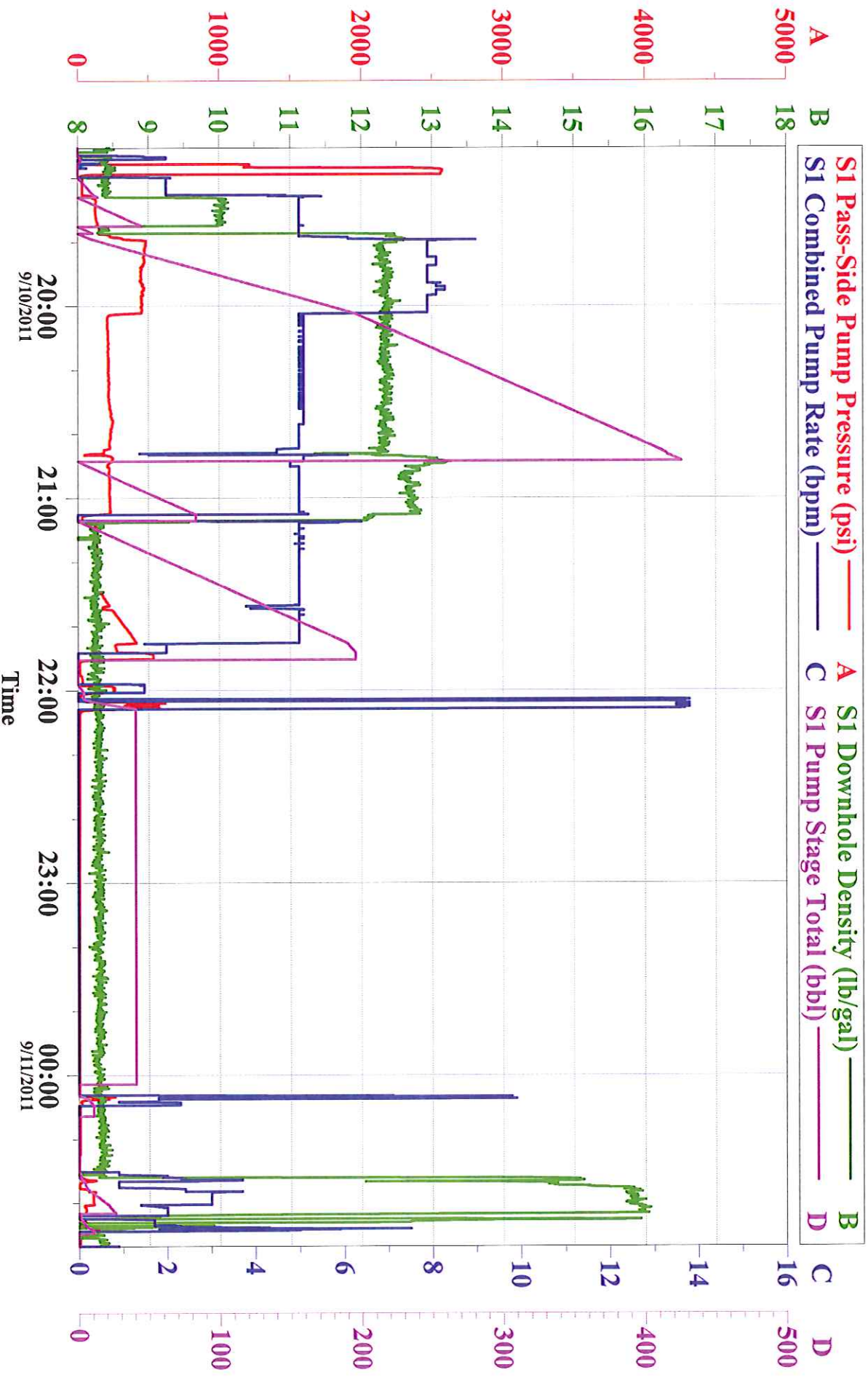
Customer: WILLIAMS PRODUCTION RMT INC - EBUS
Well Description: TR 11-1-698
Customer Rep: R. OAKS

Job Date: 10-Sep-2011
Job type: 05-045-15973
Service Supervisor: C.SMITH

Sales Order #: 8449118
ADC Used: YES
Operator/ Pump: M.PHILLIPS/E2

WILLIAMS

TOP OUT 1/ TR 11-1-698

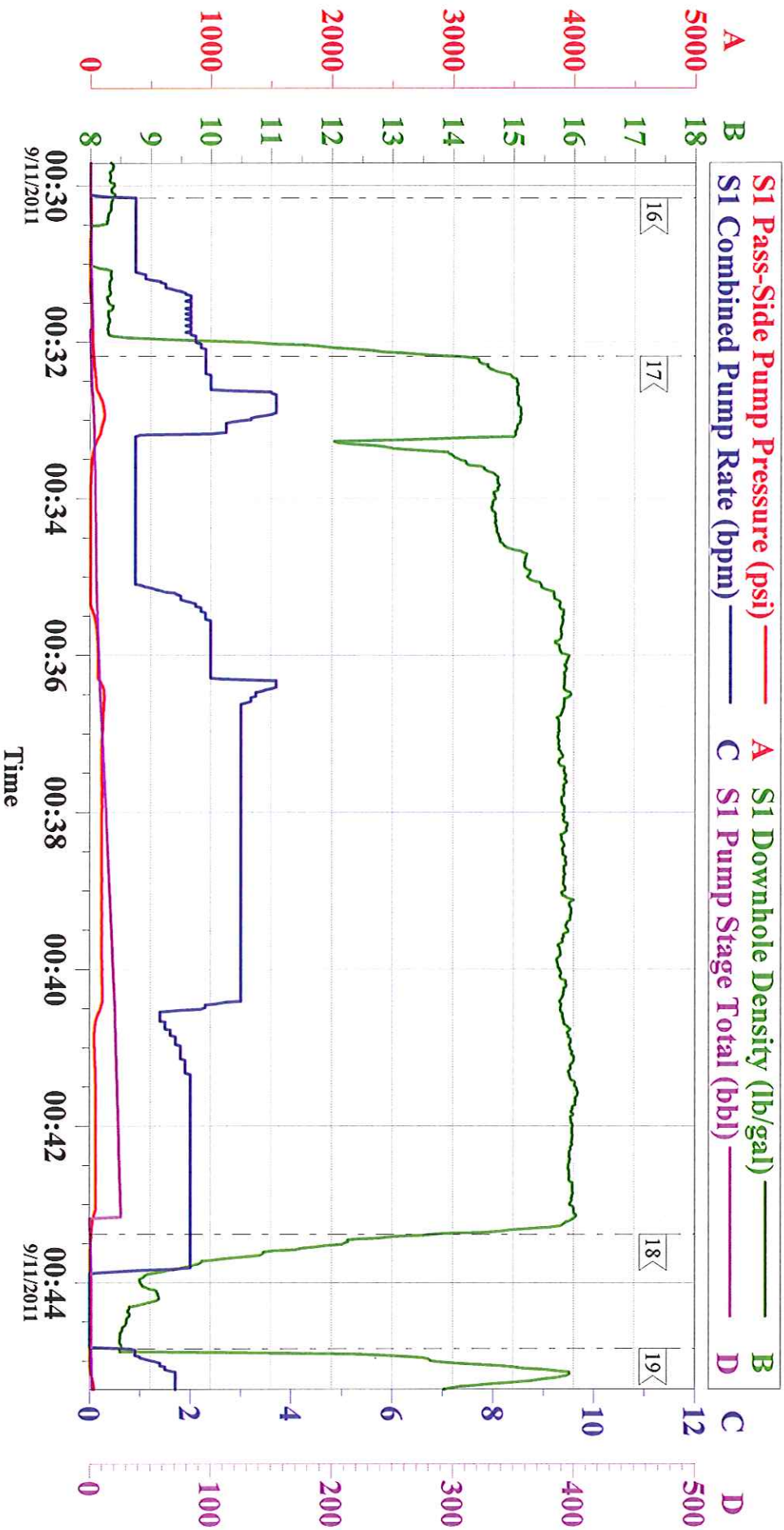


Customer: WILLIAMS PRODUCTION RMT INC - EBUS
 Well Description: TR 11-1-698
 Customer Rep: R. OAKS

Job Date: 10-Sep-2011
 Job type: 05-045-15973
 Service Supervisor: C.SMITH

Sales Order #: 8449118
 ADC Used: YES
 Operator/ Pump: M.PHILLIPS/E2

WILLIAMS TOP OUT I/ TR 11-1-698



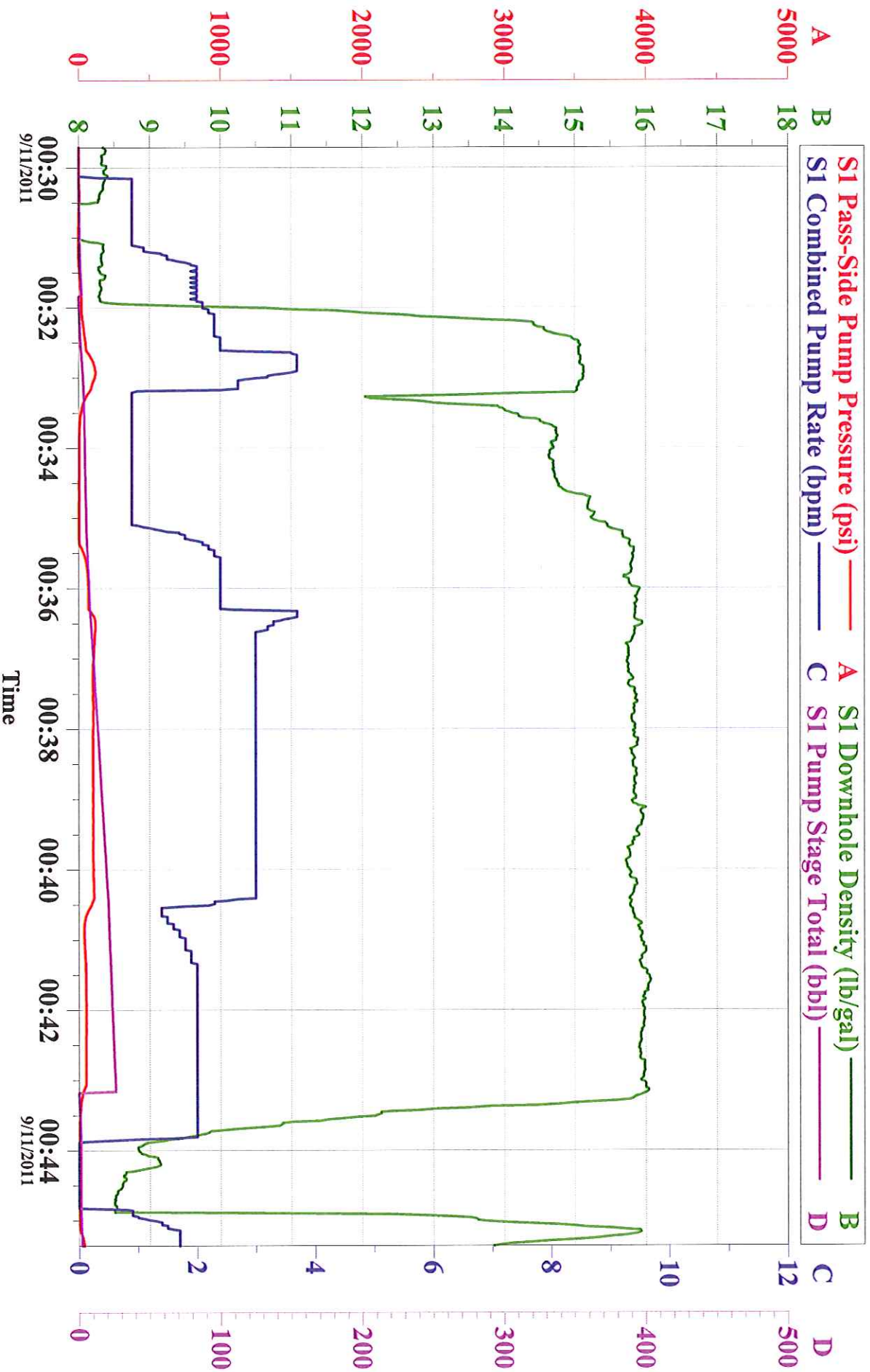
Customer: WILLIAMS PRODUCTION RMT INC - EBUS
Well Description: TR 11-1-698
Customer Rep: R. OAKS

Job Date: 10-Sep-2011
Job type: 05-045-15973
Service Supervisor: C.SMITH

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ADC Used: YES
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WILLIAMS

TOP OUT 1/ TR 11-1-698



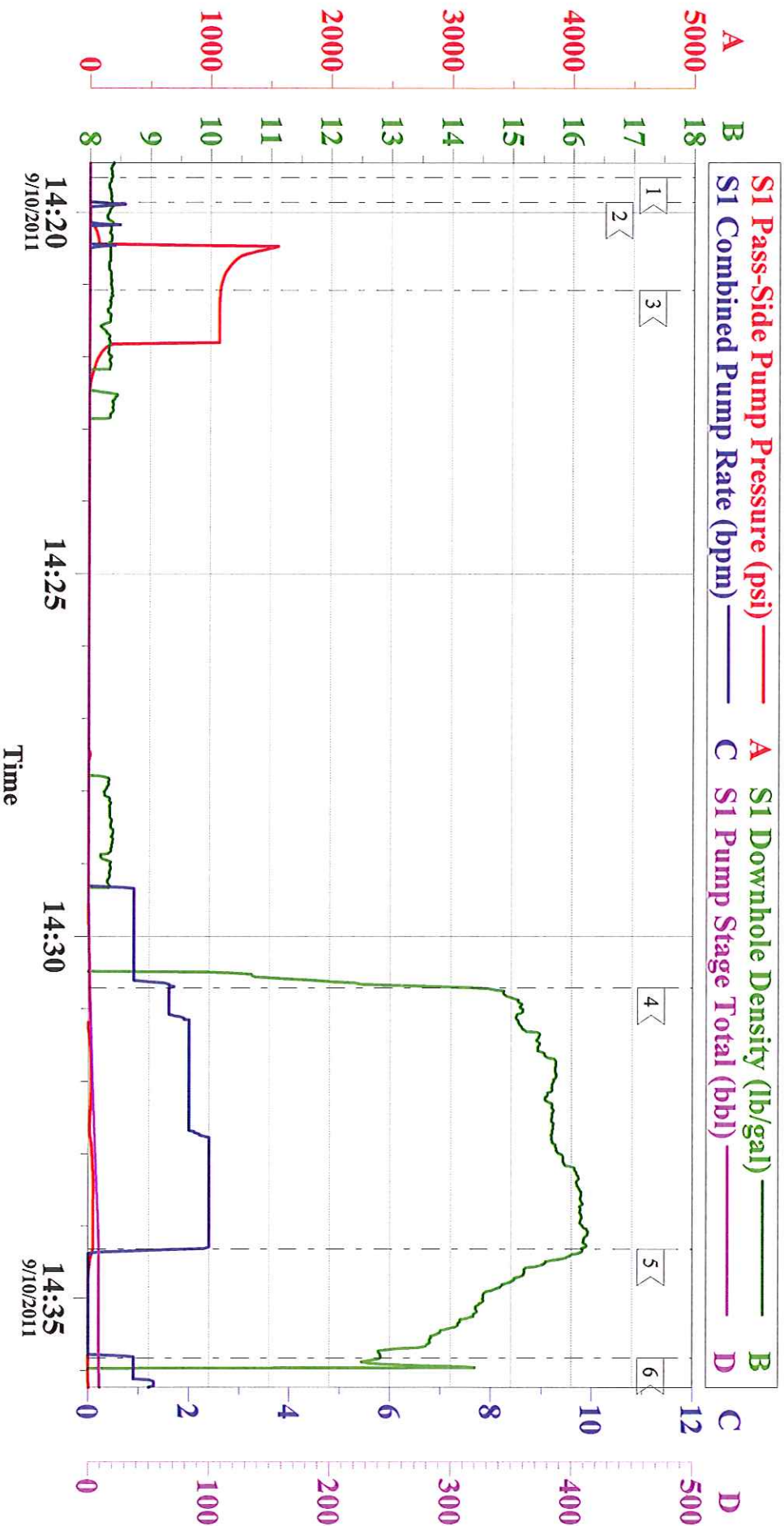
Customer: WILLIAMS PRODUCTION RMT INC - EBUS
 Well Description: TR 11-1-698
 Customer Rep: R. OAKS

Job Date: 10-Sep-2011
 Job type: 05-045-15973
 Service Supervisor: C.SMITH

Sales Order #: 8449118
 ADC Used: YES
 Operator/ Pump: M.PHILLIPS/E2

WILLIAMS

TOP OUT 1/ TR 12-1-698



Local Event Log

Maximum		SPPP		Maximum		SPPP		Maximum		SPPP	
1	< START JOB	14:19:31	2.000	2	< FILL LINES	14:19:52	1558	3	< TEST LINES	14:21:05	1082
4	< CEMENT	14:30:43	45.00	5	< SHUTDOWN	14:34:19	43.00	6	< CLEAN LINES	14:35:49	197.0

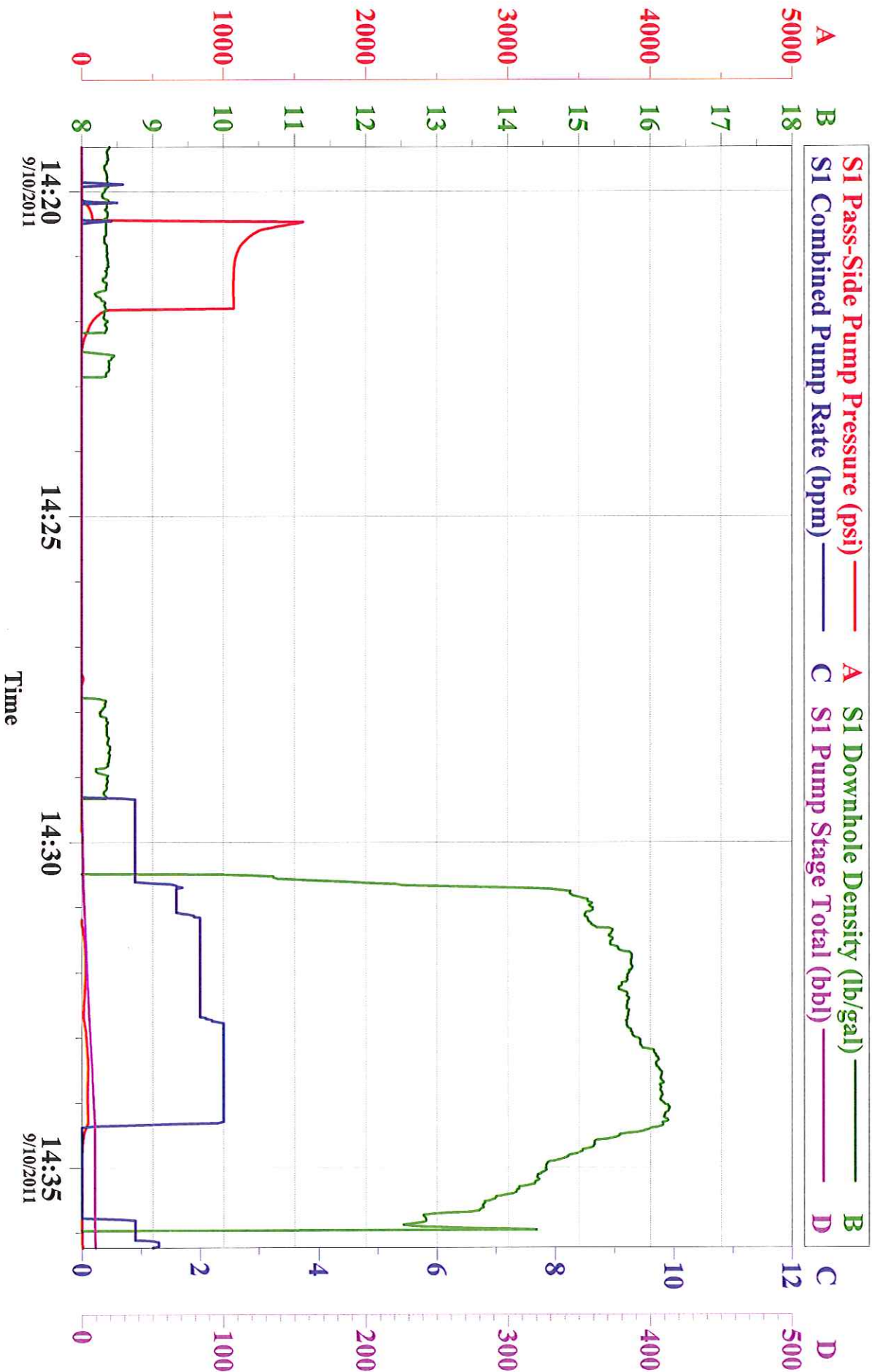
Customer: WILLIAMS PRODUCTION RMT INC - EBUS
 Well Description: TR 11-1-698
 Customer Rep: ROAKS

Job Date: 10-Sep-2011
 Job type: 05-045-15973
 Service Supervisor: C.SMITH

Sales Order #: 8449118
 ADC Used: YES
 Operator/ Pump: J.HAYES/E6

WILLIAMS

TOP OUT 1/ TR 12-1-698



Customer: WILLIAMS PRODUCTION RMT INC - EBUS
 Well Description: TR 11-1-698
 Customer Rep: R.OAKS

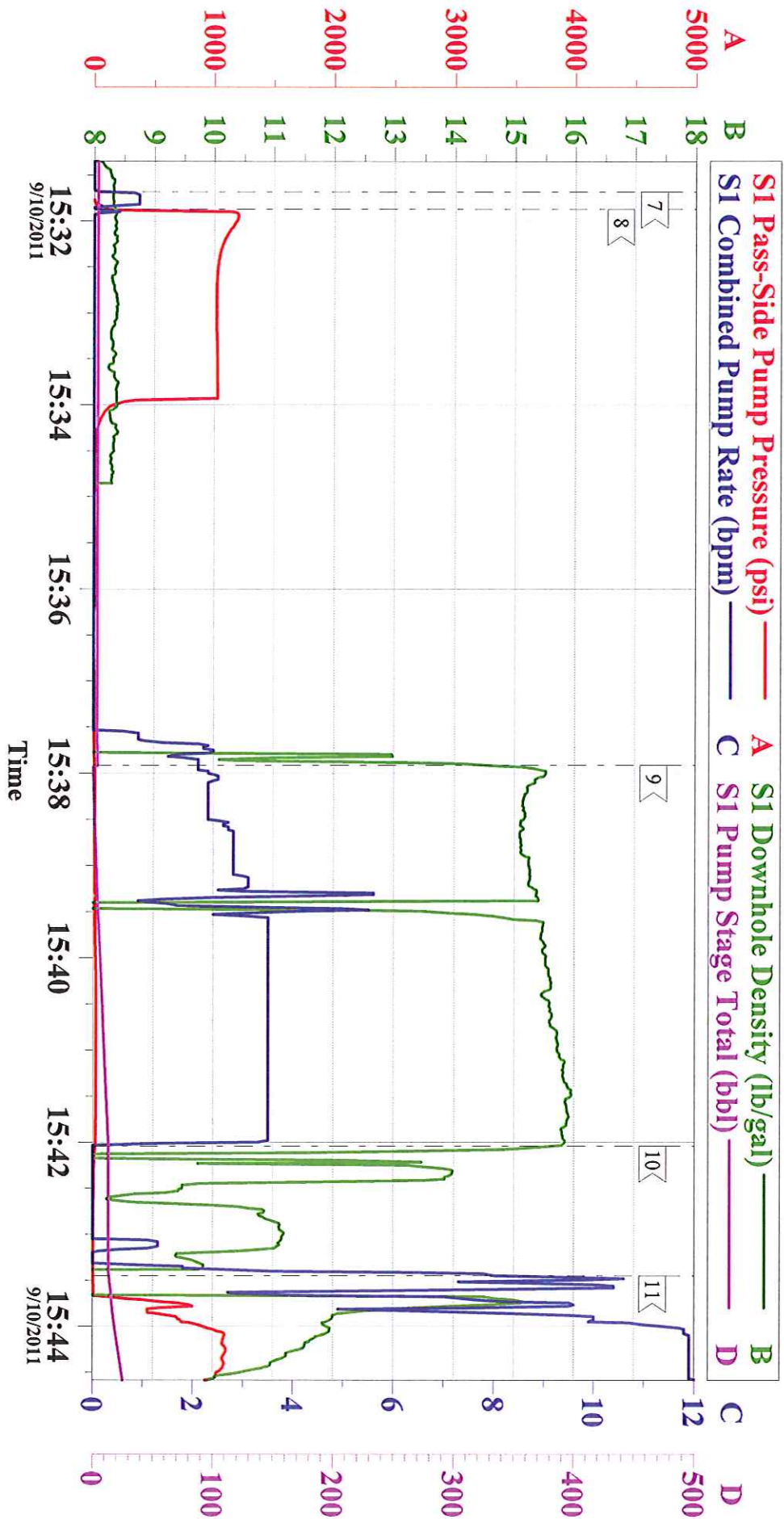
Job Date: 10-Sep-2011
 Job type: 05-045-15973
 Service Supervisor: C.SMITH

Sales Order #: 8449118
 ADC Used: YES
 Operator/ Pump: J.HAYES/E6

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WILLIAMS

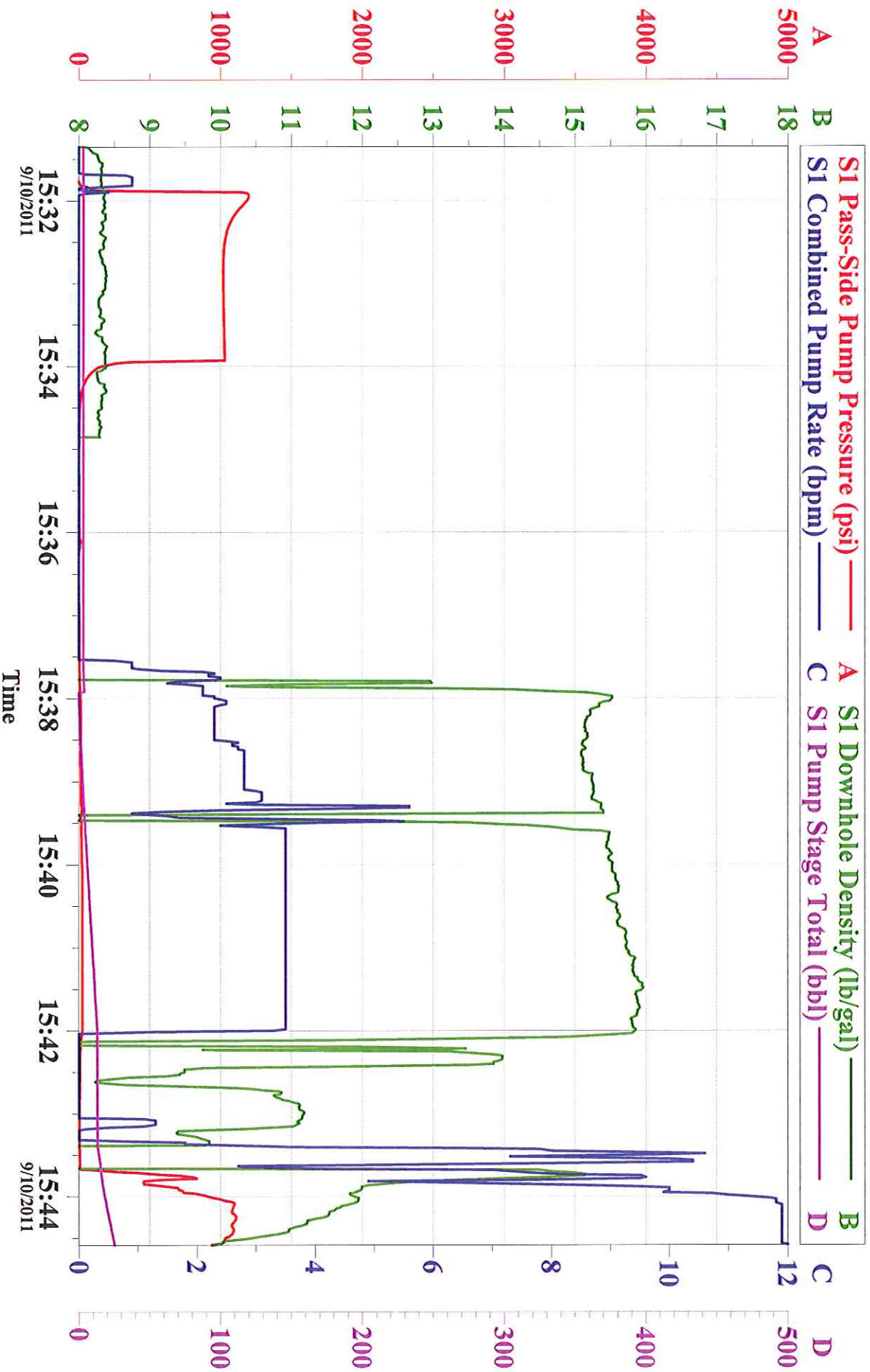
TOP OUT 1/ TR 412-1-698



Local Event Log			
Maximum	SPPP	Maximum	SPPP
7 < FILL LINES	15:31:41 99.54	8 < TEST LINES	15:31:52 1198
10 < SHUTDOWN	15:42:02 21.00	11 < CLEAN LINES	15:43:27 1247
		9 < PUMP CEMENT	15:37:55 25.00

Customer: WILLIAMS PRODUCTION RMT INC - EBUS Well Description: TR 11-1-698 Customer Rep: ROAKS	Job Date: 10-Sep-2011 Job type: 05-045-15973 Service Supervisor: C.SMITH
Sales Order #: 8449118 ADC Used: YES Operator/ Pump: J.HAYES/E6	OptiCem v6.4.10 10-Sep-11 17:18

WILLIAMS TOP OUT 1/ TR 412-1-698



Customer: WILLIAMS PRODUCTION RMT INC - EBUS
Well Description: TR 11-1-698
Customer Rep: ROAKS

Job Date: 10-Sep-2011
Job type: 05-045-15973
Service Supervisor: C.SMITH

Sales Order #: 8449118
ADC Used: YES
Operator/ Pump: J.HAYES/E6

OptiCem v6.4.10
10-Sep-11 17:18