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# Bayswater E&P

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Treatment Summary

## Booth G-26H

Weld County, Colorado

Section 65  
Township 26  
Range 7

Codell

pHaserFrac

July 13, 2014

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**BAYSWATER EXPLORATION &  
730 17TH STE 610  
DENVER, CO, 80202  
US**

BOOTH G-26H  
WATTENBERG  
WELD, CO  
US  
API/UWI 05-123-36082-00  
SEC: 26, TWP: 7, RNG: 65

## **30 Stage pHaserFrac – 175,000 lbs./stage**

Proposal 118044 - Version 1.0  
June 26, 2014

Submitted by:  
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1125 17th Street Suite 1900  
Denver, CO - 80202  
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*Halliburton appreciates the opportunity to present  
this cost estimate and looks forward to being of service to you.*

## 1 Foreword

Enclosed is our cost estimates and or recommended procedure for stimulation in the referenced well. The information in this proposal includes well data, calculations, materials requirements, and cost estimates. This proposal is based on information from our database, our valuable field personnel and previous stimulation services in the area.

Halliburton Energy Services recognizes the importance of supplying the **highest quality products and services** to our customers. Communication is a vital link in the completion process. Changes in well condition which differ considerably from those provided for this recommendation should be discussed for changes in procedure or design. Laboratory testing, running of computer programs for job optimization, and equipment for the execution of this recommendation can be coordinated with the service center listed below.

Halliburton maintains Health, Safety & Environment (HSE) as a **top priority** and provides support on HSE matters as they relate to our business activities. Helping to define, establish and incorporate HSE responsibility and accountability through every level creates value for our customers. Our vision is to create an incident-free environment and to conduct business with no adverse environmental impact. By integrating HSE into all of our business activities, Halliburton demonstrates industry leadership in HSE performance.

Technical information on products and services can be accessed easily at <http://www.myhalliburton.com>

SERVICE CENTER: Fort Lupton  
SERVICE COORDINATOR: Ray Belcher  
OPER. ENGINEER: Matt Jespersen  
PHONE NUMBER: 303.825.4346

## 2 30 Stage pHaserFrac – 175,000 lbs/stage

### 2.1 Well Details

#### 2.1.1 Tubulars

Name	Measured Depth (ft)	Outer Diameter (in)	Inner Diameter (in)	Linear Weight (lbm/ft)	Grade
7" Casing	0 - 7687	7.000	6.276	26.00	P-110
4-1/2" Liner	7382 - 12407	4.500	4.000	11.60	P-110

#### 2.1.2 Perforations

Name	Top MD (ft)	Bot MD (ft)	Top TVD (ft)	Bot TVD (ft)	Shot Density (spf)	Number of Perfs	Phase (DEG)
Sleeve 1	12257	12260	0	0	0.00	0	0.00
Sleeve 2	12101	12104	0	0	0.00	0	0.00
Sleeve 3	11944	11947	0	0	0.00	0	0.00
Sleeve 4	11789	11792	0	0	0.00	0	0.00
Sleeve 5	11632	11635	0	0	0.00	0	0.00
Sleeve 6	11476	11479	0	0	0.00	0	0.00
Sleeve 7	11319	11322	0	0	0.00	0	0.00
Sleeve 8	11163	11166	0	0	0.00	0	0.00
Sleeve 9	11006	11009	0	0	0.00	0	0.00
Sleeve 10	10853	10856	0	0	0.00	0	0.00
Sleeve 11	10697	10700	0	0	0.00	0	0.00
Sleeve 12	10541	10544	0	0	0.00	0	0.00
Sleeve 13	10385	10388	0	0	0.00	0	0.00
Sleeve 14	10228	10231	0	0	0.00	0	0.00
Sleeve 15	10080	10083	0	0	0.00	0	0.00
Sleeve 16	9923	9926	0	0	0.00	0	0.00
Sleeve 17	9766	9769	0	0	0.00	0	0.00
Sleeve 18	9610	9613	0	0	0.00	0	0.00
Sleeve 19	9453	9456	0	0	0.00	0	0.00
Sleeve 20	9297	9300	0	0	0.00	0	0.00
Sleeve 21	9146	9149	0	0	0.00	0	0.00
Sleeve 22	8989	8992	0	0	0.00	0	0.00
Sleeve 23	8833	8836	0	0	0.00	0	0.00
Sleeve 24	8676	8679	0	0	0.00	0	0.00
Sleeve 25	8519	8522	0	0	0.00	0	0.00
Sleeve 26	8363	8366	0	0	0.00	0	0.00
Sleeve 27	8206	8209	0	0	0.00	0	0.00
Sleeve 28	8050	8053	0	0	0.00	0	0.00
Sleeve 29	7893	7896	0	0	0.00	0	0.00
Sleeve 30	7737	7740	0	0	0.00	0	0.00

## 2.2 Procedure

### 2.2.1 Job Fluids

#### 30# pHaserFrac (PPT)/ 2095650.0 (Gal)

<b>Base Fluid</b>	FRESH WATER 1000.00 (gal/Mgal)	2095650.0 (Gal)	<b>Surfactant</b>	OilPerm FMM-1 2.00 (gal/Mgal)	4192.00 (Gal)
<b>Biocide</b>	BE-7 0.30 (gal/Mgal)	629.00 (Gal)	<b>Clay Control</b>	CLA-Web 0.25 (gal/Mgal)	524.00 (Gal)
<b>Breaker</b>	Vicon NF 3.00 (gal/Mgal)	6287.00 (Gal)	<b>Catalyst</b>	Cat-3 0.25 (gal/Mgal)	819.00 (Gal)

Base Fluid	Surfactant (gal/Mgal)	Biocide (gal/Mgal)	Clay Control (gal/Mgal)	Breaker (gal/Mgal)	Catalyst (gal/Mgal)
FRESH WATER	OilPerm FMM-1	BE-7	CLA-Web	Vicon NF	Cat-3
0 - 11667	2	0.3	0.25	3	0.5
11667 - 42292	2	0.3	0.25	3	0.25
42292 - 69855	2	0.3	0.25	3	0.5
69855 - 91730	2	0.3	0.25	3	0.25
91730 - 112730	2	0.3	0.25	3	0.5
112730 - 121480	2	0.3	0.25	3	0.25
121480 - 139710	2	0.3	0.25	3	0.5
139710 - 161585	2	0.3	0.25	3	0.25
161585 - 182585	2	0.3	0.25	3	0.5
182585 - 191335	2	0.3	0.25	3	0.25
191335 - 242232	2	0.3	0.25	3	0.5
242232 - 272857	2	0.3	0.25	3	0.25
272857 - 279420	2	0.3	0.25	3	0.5
279420 - 288170	2	0.3	0.25	3	0.25
288170 - 309170	2	0.3	0.25	3	0.5
309170 - 331045	2	0.3	0.25	3	0.25
331045 - 349275	2	0.3	0.25	3	0.5
349275 - 371150	2	0.3	0.25	3	0.25

<b>Base Fluid</b>	<b>Surfactant (gal/Mgal)</b>	<b>Biocide (gal/Mgal)</b>	<b>Clay Control (gal/Mgal)</b>	<b>Breaker (gal/Mgal)</b>	<b>Catalyst (gal/Mgal)</b>
371150 - 398713	2	0.3	0.25	3	0.5
398713 - 407463	2	0.3	0.25	3	0.25
407463 - 437360	2	0.3	0.25	3	0.5
437360 - 467985	2	0.3	0.25	3	0.25
467985 - 488985	2	0.3	0.25	3	0.5
488985 - 510860	2	0.3	0.25	3	0.25
510860 - 522527	2	0.3	0.25	3	0.5
522527 - 531277	2	0.3	0.25	3	0.25
531277 - 565403	2	0.3	0.25	3	0.5
565403 - 574153	2	0.3	0.25	3	0.25
574153 - 595153	2	0.3	0.25	3	0.5
595153 - 617028	2	0.3	0.25	3	0.25
617028 - 628695	2	0.3	0.25	3	0.5
628695 - 659320	2	0.3	0.25	3	0.25
659320 - 698550	2	0.3	0.25	3	0.5
698550 - 707300	2	0.3	0.25	3	0.25
707300 - 725530	2	0.3	0.25	3	0.5
725530 - 747405	2	0.3	0.25	3	0.25
747405 - 774968	2	0.3	0.25	3	0.5
774968 - 805593	2	0.3	0.25	3	0.25
805593 - 844823	2	0.3	0.25	3	0.5
844823 - 866698	2	0.3	0.25	3	0.25
866698 - 899365	2	0.3	0.25	3	0.5
899365 - 938740	2	0.3	0.25	3	0.25
938740 - 996200	2	0.3	0.25	3	0.5
996200 - 1018075	2	0.3	0.25	3	0.25
1018075 - 1039075	2	0.3	0.25	3	0.5
1039075 - 1047825	2	0.3	0.25	3	0.25
1047825 - 1087055	2	0.3	0.25	3	0.5
1087055 - 1117680	2	0.3	0.25	3	0.25
1117680 - 1150347	2	0.3	0.25	3	0.5

<b>Base Fluid</b>	<b>Surfactant (gal/Mgal)</b>	<b>Biocide (gal/Mgal)</b>	<b>Clay Control (gal/Mgal)</b>	<b>Breaker (gal/Mgal)</b>	<b>Catalyst (gal/Mgal)</b>
1150347 - 1180972	2	0.3	0.25	3	0.25
1180972 - 1187535	2	0.3	0.25	3	0.5
1187535 - 1196285	2	0.3	0.25	3	0.25
1196285 - 1235515	2	0.3	0.25	3	0.5
1235515 - 1279265	2	0.3	0.25	3	0.25
1279265 - 1318495	2	0.3	0.25	3	0.5
1318495 - 1327245	2	0.3	0.25	3	0.25
1327245 - 1366475	2	0.3	0.25	3	0.5
1366475 - 1427725	2	0.3	0.25	3	0.25
1427725 - 1487955	2	0.3	0.25	3	0.5
1487955 - 1509830	2	0.3	0.25	3	0.25
1509830 - 1516393	2	0.3	0.25	3	0.5
1516393 - 1525143	2	0.3	0.25	3	0.25
1525143 - 1536810	2	0.3	0.25	3	0.5
1536810 - 1545560	2	0.3	0.25	3	0.25
1545560 - 1566560	2	0.3	0.25	3	0.5
1566560 - 1588435	2	0.3	0.25	3	0.25
1588435 - 1613228	2	0.3	0.25	3	0.5
1613228 - 1635103	2	0.3	0.25	3	0.25
1635103 - 1656103	2	0.3	0.25	3	0.5
1656103 - 1664853	2	0.3	0.25	3	0.25
1664853 - 1709187	2	0.3	0.25	3	0.5
1709187 - 1731062	2	0.3	0.25	3	0.25
1731062 - 1737625	2	0.3	0.25	3	0.5
1737625 - 1777000	2	0.3	0.25	3	0.25
1777000 - 1822793	2	0.3	0.25	3	0.5
1822793 - 1853418	2	0.3	0.25	3	0.25
1853418 - 1918752	2	0.3	0.25	3	0.5
1918752 - 1927502	2	0.3	0.25	3	0.25
1927502 - 1934065	2	0.3	0.25	3	0.5
1934065 - 1955940	2	0.3	0.25	3	0.25

Base Fluid	Surfactant (gal/Mgal)	Biocide (gal/Mgal)	Clay Control (gal/Mgal)	Breaker (gal/Mgal)	Catalyst (gal/Mgal)
1955940 - 1974170	2	0.3	0.25	3	0.5
1974170 - 1982920	2	0.3	0.25	3	0.25
1982920 - 2003920	2	0.3	0.25	3	0.5
2003920 - 2056420	2	0.3	0.25	3	0.25
2056420 - 2095650	2	0.3	0.25	3	0.5

Notes: null

**Slick Water/ 2034720.0 (Gal)**

<b>Base Fluid</b>	FRESH WATER 1000.00 (gal/Mgal)	2034720.0 (Gal)	<b>Friction Reducer</b>	FR-66 0.50 (gal/Mgal)	1018.00 (Gal)
<b>Clay Control</b>	CLA-Web 0.25 (gal/Mgal)	509.00 (Gal)	<b>Biocide</b>	BE-7 0.30 (gal/Mgal)	611.00 (Gal)
<b>Breaker</b>	Optikleen-WF 0.50 (lbm/Mgal)	1018.00 (lbm)	<b>Surfactant</b>	OilPerm FMM-1 2.00 (gal/Mgal)	4070.00 (Gal)

Notes: null

**2.2.2 Job Totals**

**Fluids**

<b>Surfactant</b>	OilPerm FMM-1	8262(Gal)	<b>Biocide</b>	BE-7	1240(Gal)
<b>Clay Control</b>	CLA-Web	1033(Gal)	<b>Breaker</b>	Vicon NF	6287(Gal)
<b>Catalyst</b>	Cat-3	819(Gal)	<b>Friction Reducer</b>	FR-66	1018(Gal)
<b>Breaker</b>	Optikleen-WF	1018.00(lbm)			

**Proppants**

	<b>Designed Qty</b>	<b>Requested</b>
Premium White-20/40	5250090 (lbm)	5250090(lbm)

**Customer Supplied Items**

	<b>Designed Qty</b>	<b>Tank Bottom</b>	<b>Requested with Tank Bottom</b>
FRESH WATER	4130370.0 (Gal)	0 (Gal)	4130370.0(Gal)

**2.2.3 Treatment Interval 1**

Well Name	BOOTH/G-26H	Slick Water	67824.0
Job Name	30 Stage pHaserFrac – 175,000 lbs/stage	30# pHaserFrac (PPT)	69855.0
Mid Perf MD	12259(ft)	Premium White-20/40	175003
No. of Perfs/Jets	0		
Estimated Pump Time	69.34(min)		
BHST	0		
Frac Gradient	0.950 (psi/ft)		

**CASING Surface Pumping Schedule**

Trt- Stage	Stage Desc.	Fluid Desc.	Rate- Liq+Prop (bbl/min)	Clean Vol. (Gal)	Proppant	Proppant Conc. (lbm/gal)	Prop. Mass (lbm)
1-1	Pad	Slick Water	50.0	34000		0.00	0
1-2	Proppant Laden Fluid	Slick Water	50.0	17500	Premium White-20/40	0.50	8750
1-3	Proppant Laden Fluid	30# pHaserFrac (PPT)	50.0	8750	Premium White-20/40	1.00	8750
1-4	Proppant Laden Fluid	30# pHaserFrac (PPT)	50.0	21875	Premium White-20/40	2.00	43750
1-5	Proppant Laden Fluid	30# pHaserFrac (PPT)	50.0	21000	Premium White-20/40	2.50	52500
1-6	Proppant Laden Fluid	30# pHaserFrac (PPT)	50.0	11667	Premium White-20/40	3.00	35001
1-7	Proppant Laden Fluid	30# pHaserFrac (PPT)	50.0	6563	Premium White-20/40	4.00	26252
1-8	Spacer	Slick Water	50.0	1500		0.00	0
1-9	Flush	Slick Water	50.0	14824		0.00	0
<b>Totals</b>				<b>137679</b>			<b>175003</b>

**2.2.4 Treatment Interval 2**

Well Name	BOOTH/G-26H	Slick Water	67824.0
Job Name	30 Stage pHaserFrac –		
Mid Perf MD	175,000 lbs/stage	30# pHaserFrac (PPT)	69855.0
No. of Perfs/Jets	12103(ft)	Premium White-20/40	175003
Estimated Pump Time	0		
BHST	69.34(min)		
Frac Gradient	0		
	0.950 (psi/ft)		

**CASING Surface Pumping Schedule**

Trt-Stage	Stage Desc.	Fluid Desc.	Rate-Liq+Prop (bbl/min)	Clean Vol. (Gal)	Proppant	Proppant Conc. (lbm/gal)	Prop. Mass (lbm)
2-1	Pad	Slick Water	50.0	34000		0.00	0
2-2	Proppant Laden Fluid	Slick Water	50.0	17500	Premium White-20/40	0.50	8750
2-3	Proppant Laden Fluid	30# pHaserFrac (PPT)	50.0	8750	Premium White-20/40	1.00	8750
2-4	Proppant Laden Fluid	30# pHaserFrac (PPT)	50.0	21875	Premium White-20/40	2.00	43750
2-5	Proppant Laden Fluid	30# pHaserFrac (PPT)	50.0	21000	Premium White-20/40	2.50	52500
2-6	Proppant Laden Fluid	30# pHaserFrac (PPT)	50.0	11667	Premium White-20/40	3.00	35001
2-7	Proppant Laden Fluid	30# pHaserFrac (PPT)	50.0	6563	Premium White-20/40	4.00	26252
2-8	Spacer	Slick Water	50.0	1500		0.00	0
2-9	Flush	Slick Water	50.0	14824		0.00	0
<b>Totals</b>				<b>137679</b>			<b>175003</b>

**2.2.5 Treatment Interval 3**

Well Name	BOOTH/G-26H	Slick Water	67824.0
Job Name	30 Stage pHaserFrac – 175,000 lbs/stage	30# pHaserFrac (PPT)	69855.0
Mid Perf MD	11946(ft)	Premium White-20/40	175003
No. of Perfs/Jets	0		
Estimated Pump Time	69.34(min)		
BHST	0		
Frac Gradient	0.950 (psi/ft)		

**CASING Surface Pumping Schedule**

Trt- Stage	Stage Desc.	Fluid Desc.	Rate- Liq+Prop (bbl/min)	Clean Vol. (Gal)	Proppant	Proppant Conc. (lbm/gal)	Prop. Mass (lbm)
3-1	Pad	Slick Water	50.0	34000		0.00	0
3-2	Proppant Laden Fluid	Slick Water	50.0	17500	Premium White-20/40	0.50	8750
3-3	Proppant Laden Fluid	30# pHaserFrac (PPT)	50.0	8750	Premium White-20/40	1.00	8750
3-4	Proppant Laden Fluid	30# pHaserFrac (PPT)	50.0	21875	Premium White-20/40	2.00	43750
3-5	Proppant Laden Fluid	30# pHaserFrac (PPT)	50.0	21000	Premium White-20/40	2.50	52500
3-6	Proppant Laden Fluid	30# pHaserFrac (PPT)	50.0	11667	Premium White-20/40	3.00	35001
3-7	Proppant Laden Fluid	30# pHaserFrac (PPT)	50.0	6563	Premium White-20/40	4.00	26252
3-8	Spacer	Slick Water	50.0	1500		0.00	0
3-9	Flush	Slick Water	50.0	14824		0.00	0
<b>Totals</b>				<b>137679</b>			<b>175003</b>

**2.2.6 Treatment Interval 4**

Well Name	BOOTH/G-26H	Slick Water	67824.0
Job Name	30 Stage pHaserFrac –		
Mid Perf MD	175,000 lbs/stage	30# pHaserFrac (PPT)	69855.0
No. of Perfs/Jets	11791(ft)	Premium White-20/40	175003
Estimated Pump Time	0		
BHST	69.34(min)		
Frac Gradient	0		
	0.950 (psi/ft)		

**CASING Surface Pumping Schedule**

Trt- Stage	Stage Desc.	Fluid Desc.	Rate- Liq+Prop (bbl/min)	Clean Vol. (Gal)	Proppant	Proppant Conc. (lbm/gal)	Prop. Mass (lbm)
4-1	Pad	Slick Water	50.0	34000		0.00	0
4-2	Proppant Laden Fluid	Slick Water	50.0	17500	Premium White-20/40	0.50	8750
4-3	Proppant Laden Fluid	30# pHaserFrac (PPT)	50.0	8750	Premium White-20/40	1.00	8750
4-4	Proppant Laden Fluid	30# pHaserFrac (PPT)	50.0	21875	Premium White-20/40	2.00	43750
4-5	Proppant Laden Fluid	30# pHaserFrac (PPT)	50.0	21000	Premium White-20/40	2.50	52500
4-6	Proppant Laden Fluid	30# pHaserFrac (PPT)	50.0	11667	Premium White-20/40	3.00	35001
4-7	Proppant Laden Fluid	30# pHaserFrac (PPT)	50.0	6563	Premium White-20/40	4.00	26252
4-8	Spacer	Slick Water	50.0	1500		0.00	0
4-9	Flush	Slick Water	50.0	14824		0.00	0
<b>Totals</b>				<b>137679</b>			<b>175003</b>

**2.2.7 Treatment Interval 5**

Well Name	BOOTH/G-26H	Slick Water	67824.0
Job Name	30 Stage pHaserFrac –		
Mid Perf MD	175,000 lbs/stage	30# pHaserFrac (PPT)	69855.0
No. of Perfs/Jets	11634(ft)	Premium White-20/40	175003
Estimated Pump Time	0		
BHST	69.34(min)		
Frac Gradient	0		
	0.950 (psi/ft)		

**CASING Surface Pumping Schedule**

Trt-Stage	Stage Desc.	Fluid Desc.	Rate-Liq+Prop (bbl/min)	Clean Vol. (Gal)	Proppant	Proppant Conc. (lbm/gal)	Prop. Mass (lbm)
5-1	Pad	Slick Water	50.0	34000		0.00	0
5-2	Proppant Laden Fluid	Slick Water	50.0	17500	Premium White-20/40	0.50	8750
5-3	Proppant Laden Fluid	30# pHaserFrac (PPT)	50.0	8750	Premium White-20/40	1.00	8750
5-4	Proppant Laden Fluid	30# pHaserFrac (PPT)	50.0	21875	Premium White-20/40	2.00	43750
5-5	Proppant Laden Fluid	30# pHaserFrac (PPT)	50.0	21000	Premium White-20/40	2.50	52500
5-6	Proppant Laden Fluid	30# pHaserFrac (PPT)	50.0	11667	Premium White-20/40	3.00	35001
5-7	Proppant Laden Fluid	30# pHaserFrac (PPT)	50.0	6563	Premium White-20/40	4.00	26252
5-8	Spacer	Slick Water	50.0	1500		0.00	0
5-9	Flush	Slick Water	50.0	14824		0.00	0
<b>Totals</b>				<b>137679</b>			<b>175003</b>

**2.2.8 Treatment Interval 6**

Well Name	BOOTH/G-26H	Slick Water	67824.0
Job Name	30 Stage pHaserFrac –		
Mid Perf MD	175,000 lbs/stage	30# pHaserFrac (PPT)	69855.0
No. of Perfs/Jets	11478(ft)	Premium White-20/40	175003
Estimated Pump Time	0		
BHST	69.34(min)		
Frac Gradient	0		
	0.950 (psi/ft)		

**CASING Surface Pumping Schedule**

Trt- Stage	Stage Desc.	Fluid Desc.	Rate- Liq+Prop (bbl/min)	Clean Vol. (Gal)	Proppant	Proppant Conc. (lbm/gal)	Prop. Mass (lbm)
6-1	Pad	Slick Water	50.0	34000		0.00	0
6-2	Proppant Laden Fluid	Slick Water	50.0	17500	Premium White-20/40	0.50	8750
6-3	Proppant Laden Fluid	30# pHaserFrac (PPT)	50.0	8750	Premium White-20/40	1.00	8750
6-4	Proppant Laden Fluid	30# pHaserFrac (PPT)	50.0	21875	Premium White-20/40	2.00	43750
6-5	Proppant Laden Fluid	30# pHaserFrac (PPT)	50.0	21000	Premium White-20/40	2.50	52500
6-6	Proppant Laden Fluid	30# pHaserFrac (PPT)	50.0	11667	Premium White-20/40	3.00	35001
6-7	Proppant Laden Fluid	30# pHaserFrac (PPT)	50.0	6563	Premium White-20/40	4.00	26252
6-8	Spacer	Slick Water	50.0	1500		0.00	0
6-9	Flush	Slick Water	50.0	14824		0.00	0
<b>Totals</b>				<b>137679</b>			<b>175003</b>

**2.2.9 Treatment Interval 7**

Well Name	BOOTH/G-26H	Slick Water	67824.0
Job Name	30 Stage pHaserFrac –		
Mid Perf MD	175,000 lbs/stage	30# pHaserFrac (PPT)	69855.0
No. of Perfs/Jets	11321(ft)	Premium White-20/40	175003
Estimated Pump Time	0		
BHST	69.34(min)		
Frac Gradient	0		
	0.950 (psi/ft)		

**CASING Surface Pumping Schedule**

Trt-Stage	Stage Desc.	Fluid Desc.	Rate-Liq+Prop (bbl/min)	Clean Vol. (Gal)	Proppant	Proppant Conc. (lbm/gal)	Prop. Mass (lbm)
7-1	Pad	Slick Water	50.0	34000		0.00	0
7-2	Proppant Laden Fluid	Slick Water	50.0	17500	Premium White-20/40	0.50	8750
7-3	Proppant Laden Fluid	30# pHaserFrac (PPT)	50.0	8750	Premium White-20/40	1.00	8750
7-4	Proppant Laden Fluid	30# pHaserFrac (PPT)	50.0	21875	Premium White-20/40	2.00	43750
7-5	Proppant Laden Fluid	30# pHaserFrac (PPT)	50.0	21000	Premium White-20/40	2.50	52500
7-6	Proppant Laden Fluid	30# pHaserFrac (PPT)	50.0	11667	Premium White-20/40	3.00	35001
7-7	Proppant Laden Fluid	30# pHaserFrac (PPT)	50.0	6563	Premium White-20/40	4.00	26252
7-8	Spacer	Slick Water	50.0	1500		0.00	0
7-9	Flush	Slick Water	50.0	14824		0.00	0
<b>Totals</b>				<b>137679</b>			<b>175003</b>

**2.2.10 Treatment Interval 8**

Well Name	BOOTH/G-26H	Slick Water	67824.0
Job Name	30 Stage pHaserFrac –		
Mid Perf MD	175,000 lbs/stage	30# pHaserFrac (PPT)	69855.0
No. of Perfs/Jets	11165(ft)	Premium White-20/40	175003
Estimated Pump Time	0		
BHST	69.34(min)		
Frac Gradient	0		
	0.950 (psi/ft)		

**CASING Surface Pumping Schedule**

Trt- Stage	Stage Desc.	Fluid Desc.	Rate- Liq+Prop (bbl/min)	Clean Vol. (Gal)	Proppant	Proppant Conc. (lbm/gal)	Prop. Mass (lbm)
8-1	Pad	Slick Water	50.0	34000		0.00	0
8-2	Proppant Laden Fluid	Slick Water	50.0	17500	Premium White-20/40	0.50	8750
8-3	Proppant Laden Fluid	30# pHaserFrac (PPT)	50.0	8750	Premium White-20/40	1.00	8750
8-4	Proppant Laden Fluid	30# pHaserFrac (PPT)	50.0	21875	Premium White-20/40	2.00	43750
8-5	Proppant Laden Fluid	30# pHaserFrac (PPT)	50.0	21000	Premium White-20/40	2.50	52500
8-6	Proppant Laden Fluid	30# pHaserFrac (PPT)	50.0	11667	Premium White-20/40	3.00	35001
8-7	Proppant Laden Fluid	30# pHaserFrac (PPT)	50.0	6563	Premium White-20/40	4.00	26252
8-8	Spacer	Slick Water	50.0	1500		0.00	0
8-9	Flush	Slick Water	50.0	14824		0.00	0
<b>Totals</b>				<b>137679</b>			<b>175003</b>

**2.2.11 Treatment Interval 9**

Well Name	BOOTH/G-26H	Slick Water	67824.0
Job Name	30 Stage pHaserFrac –		
Mid Perf MD	175,000 lbs/stage	30# pHaserFrac (PPT)	69855.0
No. of Perfs/Jets	11008(ft)	Premium White-20/40	175003
Estimated Pump Time	0		
BHST	69.34(min)		
Frac Gradient	0		
	0.950 (psi/ft)		

**CASING Surface Pumping Schedule**

Trt-Stage	Stage Desc.	Fluid Desc.	Rate-Liq+Prop (bbl/min)	Clean Vol. (Gal)	Proppant	Proppant Conc. (lbm/gal)	Prop. Mass (lbm)
9-1	Pad	Slick Water	50.0	34000		0.00	0
9-2	Proppant Laden Fluid	Slick Water	50.0	17500	Premium White-20/40	0.50	8750
9-3	Proppant Laden Fluid	30# pHaserFrac (PPT)	50.0	8750	Premium White-20/40	1.00	8750
9-4	Proppant Laden Fluid	30# pHaserFrac (PPT)	50.0	21875	Premium White-20/40	2.00	43750
9-5	Proppant Laden Fluid	30# pHaserFrac (PPT)	50.0	21000	Premium White-20/40	2.50	52500
9-6	Proppant Laden Fluid	30# pHaserFrac (PPT)	50.0	11667	Premium White-20/40	3.00	35001
9-7	Proppant Laden Fluid	30# pHaserFrac (PPT)	50.0	6563	Premium White-20/40	4.00	26252
9-8	Spacer	Slick Water	50.0	1500		0.00	0
9-9	Flush	Slick Water	50.0	14824		0.00	0
<b>Totals</b>				<b>137679</b>			<b>175003</b>

**2.2.12 Treatment Interval 10**

Well Name	BOOTH/G-26H	Slick Water	67824.0
Job Name	30 Stage pHaserFrac –		
Mid Perf MD	175,000 lbs/stage	30# pHaserFrac (PPT)	69855.0
No. of Perfs/Jets	10855(ft)	Premium White-20/40	175003
Estimated Pump Time	0		
BHST	69.34(min)		
Frac Gradient	0		
	0.950 (psi/ft)		

**CASING Surface Pumping Schedule**

Trt- Stage	Stage Desc.	Fluid Desc.	Rate- Liq+Prop (bbl/min)	Clean Vol. (Gal)	Proppant	Proppant Conc. (lbm/gal)	Prop. Mass (lbm)
10-1	Pad	Slick Water	50.0	34000		0.00	0
10-2	Proppant Laden Fluid	Slick Water	50.0	17500	Premium White-20/40	0.50	8750
10-3	Proppant Laden Fluid	30# pHaserFrac (PPT)	50.0	8750	Premium White-20/40	1.00	8750
10-4	Proppant Laden Fluid	30# pHaserFrac (PPT)	50.0	21875	Premium White-20/40	2.00	43750
10-5	Proppant Laden Fluid	30# pHaserFrac (PPT)	50.0	21000	Premium White-20/40	2.50	52500
10-6	Proppant Laden Fluid	30# pHaserFrac (PPT)	50.0	11667	Premium White-20/40	3.00	35001
10-7	Proppant Laden Fluid	30# pHaserFrac (PPT)	50.0	6563	Premium White-20/40	4.00	26252
10-8	Spacer	Slick Water	50.0	1500		0.00	0
10-9	Flush	Slick Water	50.0	14824		0.00	0
<b>Totals</b>				<b>137679</b>			<b>175003</b>

**2.2.13 Treatment Interval 11**

Well Name	BOOTH/G-26H	Slick Water	67824.0
Job Name	30 Stage pHaserFrac –		
Mid Perf MD	175,000 lbs/stage	30# pHaserFrac (PPT)	69855.0
No. of Perfs/Jets	10699(ft)	Premium White-20/40	175003
Estimated Pump Time	0		
BHST	69.34(min)		
Frac Gradient	0		
	0.950 (psi/ft)		

**CASING Surface Pumping Schedule**

Trt-Stage	Stage Desc.	Fluid Desc.	Rate-Liq+Prop (bbl/min)	Clean Vol. (Gal)	Proppant	Proppant Conc. (lbm/gal)	Prop. Mass (lbm)
11-1	Pad	Slick Water	50.0	34000		0.00	0
11-2	Proppant Laden Fluid	Slick Water	50.0	17500	Premium White-20/40	0.50	8750
11-3	Proppant Laden Fluid	30# pHaserFrac (PPT)	50.0	8750	Premium White-20/40	1.00	8750
11-4	Proppant Laden Fluid	30# pHaserFrac (PPT)	50.0	21875	Premium White-20/40	2.00	43750
11-5	Proppant Laden Fluid	30# pHaserFrac (PPT)	50.0	21000	Premium White-20/40	2.50	52500
11-6	Proppant Laden Fluid	30# pHaserFrac (PPT)	50.0	11667	Premium White-20/40	3.00	35001
11-7	Proppant Laden Fluid	30# pHaserFrac (PPT)	50.0	6563	Premium White-20/40	4.00	26252
11-8	Spacer	Slick Water	50.0	1500		0.00	0
11-9	Flush	Slick Water	50.0	14824		0.00	0
<b>Totals</b>				<b>137679</b>			<b>175003</b>

**2.2.14 Treatment Interval 12**

Well Name	BOOTH/G-26H	Slick Water	67824.0
Job Name	30 Stage pHaserFrac –		
Mid Perf MD	175,000 lbs/stage	30# pHaserFrac (PPT)	69855.0
No. of Perfs/Jets	10543(ft)	Premium White-20/40	175003
Estimated Pump Time	0		
BHST	69.34(min)		
Frac Gradient	0		
	0.950 (psi/ft)		

**CASING Surface Pumping Schedule**

Trt- Stage	Stage Desc.	Fluid Desc.	Rate- Liq+Prop (bbl/min)	Clean Vol. (Gal)	Proppant	Proppant Conc. (lbm/gal)	Prop. Mass (lbm)
12-1	Pad	Slick Water	50.0	34000		0.00	0
12-2	Proppant Laden Fluid	Slick Water	50.0	17500	Premium White-20/40	0.50	8750
12-3	Proppant Laden Fluid	30# pHaserFrac (PPT)	50.0	8750	Premium White-20/40	1.00	8750
12-4	Proppant Laden Fluid	30# pHaserFrac (PPT)	50.0	21875	Premium White-20/40	2.00	43750
12-5	Proppant Laden Fluid	30# pHaserFrac (PPT)	50.0	21000	Premium White-20/40	2.50	52500
12-6	Proppant Laden Fluid	30# pHaserFrac (PPT)	50.0	11667	Premium White-20/40	3.00	35001
12-7	Proppant Laden Fluid	30# pHaserFrac (PPT)	50.0	6563	Premium White-20/40	4.00	26252
12-8	Spacer	Slick Water	50.0	1500		0.00	0
12-9	Flush	Slick Water	50.0	14824		0.00	0
<b>Totals</b>				<b>137679</b>			<b>175003</b>

**2.2.15 Treatment Interval 13**

Well Name	BOOTH/G-26H	Slick Water	67824.0
Job Name	30 Stage pHaserFrac –		
Mid Perf MD	175,000 lbs/stage	30# pHaserFrac (PPT)	69855.0
No. of Perfs/Jets	10387(ft)	Premium White-20/40	175003
Estimated Pump Time	0		
BHST	69.34(min)		
Frac Gradient	0		
	0.950 (psi/ft)		

**CASING Surface Pumping Schedule**

Trt- Stage	Stage Desc.	Fluid Desc.	Rate- Liq+Prop (bbl/min)	Clean Vol. (Gal)	Proppant	Proppant Conc. (lbm/gal)	Prop. Mass (lbm)
13-1	Pad	Slick Water	50.0	34000		0.00	0
13-2	Proppant Laden Fluid	Slick Water	50.0	17500	Premium White-20/40	0.50	8750
13-3	Proppant Laden Fluid	30# pHaserFrac (PPT)	50.0	8750	Premium White-20/40	1.00	8750
13-4	Proppant Laden Fluid	30# pHaserFrac (PPT)	50.0	21875	Premium White-20/40	2.00	43750
13-5	Proppant Laden Fluid	30# pHaserFrac (PPT)	50.0	21000	Premium White-20/40	2.50	52500
13-6	Proppant Laden Fluid	30# pHaserFrac (PPT)	50.0	11667	Premium White-20/40	3.00	35001
13-7	Proppant Laden Fluid	30# pHaserFrac (PPT)	50.0	6563	Premium White-20/40	4.00	26252
13-8	Spacer	Slick Water	50.0	1500		0.00	0
13-9	Flush	Slick Water	50.0	14824		0.00	0
<b>Totals</b>				<b>137679</b>			<b>175003</b>

**2.2.16 Treatment Interval 14**

Well Name	BOOTH/G-26H	Slick Water	67824.0
Job Name	30 Stage pHaserFrac –		
Mid Perf MD	175,000 lbs/stage	30# pHaserFrac (PPT)	69855.0
No. of Perfs/Jets	10230(ft)	Premium White-20/40	175003
Estimated Pump Time	0		
BHST	69.34(min)		
Frac Gradient	0		
	0.950 (psi/ft)		

**CASING Surface Pumping Schedule**

Trt-Stage	Stage Desc.	Fluid Desc.	Rate-Liq+Prop (bbl/min)	Clean Vol. (Gal)	Proppant	Proppant Conc. (lbm/gal)	Prop. Mass (lbm)
14-1	Pad	Slick Water	50.0	34000		0.00	0
14-2	Proppant Laden Fluid	Slick Water	50.0	17500	Premium White-20/40	0.50	8750
14-3	Proppant Laden Fluid	30# pHaserFrac (PPT)	50.0	8750	Premium White-20/40	1.00	8750
14-4	Proppant Laden Fluid	30# pHaserFrac (PPT)	50.0	21875	Premium White-20/40	2.00	43750
14-5	Proppant Laden Fluid	30# pHaserFrac (PPT)	50.0	21000	Premium White-20/40	2.50	52500
14-6	Proppant Laden Fluid	30# pHaserFrac (PPT)	50.0	11667	Premium White-20/40	3.00	35001
14-7	Proppant Laden Fluid	30# pHaserFrac (PPT)	50.0	6563	Premium White-20/40	4.00	26252
14-8	Spacer	Slick Water	50.0	1500		0.00	0
14-9	Flush	Slick Water	50.0	14824		0.00	0
<b>Totals</b>				<b>137679</b>			<b>175003</b>

**2.2.17 Treatment Interval 15**

Well Name	BOOTH/G-26H	Slick Water	67824.0
Job Name	30 Stage pHaserFrac –		
Mid Perf MD	175,000 lbs/stage	30# pHaserFrac (PPT)	69855.0
No. of Perfs/Jets	10082(ft)	Premium White-20/40	175003
Estimated Pump Time	0		
BHST	69.34(min)		
Frac Gradient	0		
	0.950 (psi/ft)		

**CASING Surface Pumping Schedule**

Trt-Stage	Stage Desc.	Fluid Desc.	Rate-Liq+Prop (bbl/min)	Clean Vol. (Gal)	Proppant	Proppant Conc. (lbm/gal)	Prop. Mass (lbm)
15-1	Pad	Slick Water	50.0	34000		0.00	0
15-2	Proppant Laden Fluid	Slick Water	50.0	17500	Premium White-20/40	0.50	8750
15-3	Proppant Laden Fluid	30# pHaserFrac (PPT)	50.0	8750	Premium White-20/40	1.00	8750
15-4	Proppant Laden Fluid	30# pHaserFrac (PPT)	50.0	21875	Premium White-20/40	2.00	43750
15-5	Proppant Laden Fluid	30# pHaserFrac (PPT)	50.0	21000	Premium White-20/40	2.50	52500
15-6	Proppant Laden Fluid	30# pHaserFrac (PPT)	50.0	11667	Premium White-20/40	3.00	35001
15-7	Proppant Laden Fluid	30# pHaserFrac (PPT)	50.0	6563	Premium White-20/40	4.00	26252
15-8	Spacer	Slick Water	50.0	1500		0.00	0
15-9	Flush	Slick Water	50.0	14824		0.00	0
<b>Totals</b>				<b>137679</b>			<b>175003</b>

**2.2.18 Treatment Interval 16**

Well Name	BOOTH/G-26H	Slick Water	67824.0
Job Name	30 Stage pHaserFrac –		
Mid Perf MD	175,000 lbs/stage	30# pHaserFrac (PPT)	69855.0
No. of Perfs/Jets	9925(ft)	Premium White-20/40	175003
Estimated Pump Time	0		
BHST	69.34(min)		
Frac Gradient	0		
	0.950 (psi/ft)		

**CASING Surface Pumping Schedule**

Trt- Stage	Stage Desc.	Fluid Desc.	Rate- Liq+Prop (bbl/min)	Clean Vol. (Gal)	Proppant	Proppant Conc. (lbm/gal)	Prop. Mass (lbm)
16-1	Pad	Slick Water	50.0	34000		0.00	0
16-2	Proppant Laden Fluid	Slick Water	50.0	17500	Premium White-20/40	0.50	8750
16-3	Proppant Laden Fluid	30# pHaserFrac (PPT)	50.0	8750	Premium White-20/40	1.00	8750
16-4	Proppant Laden Fluid	30# pHaserFrac (PPT)	50.0	21875	Premium White-20/40	2.00	43750
16-5	Proppant Laden Fluid	30# pHaserFrac (PPT)	50.0	21000	Premium White-20/40	2.50	52500
16-6	Proppant Laden Fluid	30# pHaserFrac (PPT)	50.0	11667	Premium White-20/40	3.00	35001
16-7	Proppant Laden Fluid	30# pHaserFrac (PPT)	50.0	6563	Premium White-20/40	4.00	26252
16-8	Spacer	Slick Water	50.0	1500		0.00	0
16-9	Flush	Slick Water	50.0	14824		0.00	0
<b>Totals</b>				<b>137679</b>			<b>175003</b>

**2.2.19 Treatment Interval 17**

Well Name	BOOTH/G-26H	Slick Water	67824.0
Job Name	30 Stage pHaserFrac –		
Mid Perf MD	175,000 lbs/stage	30# pHaserFrac (PPT)	69855.0
No. of Perfs/Jets	9768(ft)	Premium White-20/40	175003
Estimated Pump Time	0		
BHST	69.34(min)		
Frac Gradient	0		
	0.950 (psi/ft)		

**CASING Surface Pumping Schedule**

Trt-Stage	Stage Desc.	Fluid Desc.	Rate-Liq+Prop (bbl/min)	Clean Vol. (Gal)	Proppant	Proppant Conc. (lbm/gal)	Prop. Mass (lbm)
17-1	Pad	Slick Water	50.0	34000		0.00	0
17-2	Proppant Laden Fluid	Slick Water	50.0	17500	Premium White-20/40	0.50	8750
17-3	Proppant Laden Fluid	30# pHaserFrac (PPT)	50.0	8750	Premium White-20/40	1.00	8750
17-4	Proppant Laden Fluid	30# pHaserFrac (PPT)	50.0	21875	Premium White-20/40	2.00	43750
17-5	Proppant Laden Fluid	30# pHaserFrac (PPT)	50.0	21000	Premium White-20/40	2.50	52500
17-6	Proppant Laden Fluid	30# pHaserFrac (PPT)	50.0	11667	Premium White-20/40	3.00	35001
17-7	Proppant Laden Fluid	30# pHaserFrac (PPT)	50.0	6563	Premium White-20/40	4.00	26252
17-8	Spacer	Slick Water	50.0	1500		0.00	0
17-9	Flush	Slick Water	50.0	14824		0.00	0
<b>Totals</b>				<b>137679</b>			<b>175003</b>

**2.2.20 Treatment Interval 18**

Well Name	BOOTH/G-26H	Slick Water	67824.0
Job Name	30 Stage pHaserFrac –		
Mid Perf MD	175,000 lbs/stage	30# pHaserFrac (PPT)	69855.0
No. of Perfs/Jets	9612(ft)	Premium White-20/40	175003
Estimated Pump Time	0		
BHST	69.34(min)		
Frac Gradient	0		
	0.950 (psi/ft)		

**CASING Surface Pumping Schedule**

Trt-Stage	Stage Desc.	Fluid Desc.	Rate-Liq+Prop (bbl/min)	Clean Vol. (Gal)	Proppant	Proppant Conc. (lbm/gal)	Prop. Mass (lbm)
18-1	Pad	Slick Water	50.0	34000		0.00	0
18-2	Proppant Laden Fluid	Slick Water	50.0	17500	Premium White-20/40	0.50	8750
18-3	Proppant Laden Fluid	30# pHaserFrac (PPT)	50.0	8750	Premium White-20/40	1.00	8750
18-4	Proppant Laden Fluid	30# pHaserFrac (PPT)	50.0	21875	Premium White-20/40	2.00	43750
18-5	Proppant Laden Fluid	30# pHaserFrac (PPT)	50.0	21000	Premium White-20/40	2.50	52500
18-6	Proppant Laden Fluid	30# pHaserFrac (PPT)	50.0	11667	Premium White-20/40	3.00	35001
18-7	Proppant Laden Fluid	30# pHaserFrac (PPT)	50.0	6563	Premium White-20/40	4.00	26252
18-8	Spacer	Slick Water	50.0	1500		0.00	0
18-9	Flush	Slick Water	50.0	14824		0.00	0
<b>Totals</b>				<b>137679</b>			<b>175003</b>

**2.2.21 Treatment Interval 19**

Well Name	BOOTH/G-26H	Slick Water	67824.0
Job Name	30 Stage pHaserFrac –		
Mid Perf MD	175,000 lbs/stage	30# pHaserFrac (PPT)	69855.0
No. of Perfs/Jets	9455(ft)	Premium White-20/40	175003
Estimated Pump Time	0		
BHST	69.34(min)		
Frac Gradient	0		
	0.950 (psi/ft)		

**CASING Surface Pumping Schedule**

Trt-Stage	Stage Desc.	Fluid Desc.	Rate-Liq+Prop (bbl/min)	Clean Vol. (Gal)	Proppant	Proppant Conc. (lbm/gal)	Prop. Mass (lbm)
19-1	Pad	Slick Water	50.0	34000		0.00	0
19-2	Proppant Laden Fluid	Slick Water	50.0	17500	Premium White-20/40	0.50	8750
19-3	Proppant Laden Fluid	30# pHaserFrac (PPT)	50.0	8750	Premium White-20/40	1.00	8750
19-4	Proppant Laden Fluid	30# pHaserFrac (PPT)	50.0	21875	Premium White-20/40	2.00	43750
19-5	Proppant Laden Fluid	30# pHaserFrac (PPT)	50.0	21000	Premium White-20/40	2.50	52500
19-6	Proppant Laden Fluid	30# pHaserFrac (PPT)	50.0	11667	Premium White-20/40	3.00	35001
19-7	Proppant Laden Fluid	30# pHaserFrac (PPT)	50.0	6563	Premium White-20/40	4.00	26252
19-8	Spacer	Slick Water	50.0	1500		0.00	0
19-9	Flush	Slick Water	50.0	14824		0.00	0
<b>Totals</b>				<b>137679</b>			<b>175003</b>

**2.2.22 Treatment Interval 20**

Well Name	BOOTH/G-26H	Slick Water	67824.0
Job Name	30 Stage pHaserFrac –		
Mid Perf MD	175,000 lbs/stage	30# pHaserFrac (PPT)	69855.0
No. of Perfs/Jets	9299(ft)	Premium White-20/40	175003
Estimated Pump Time	0		
BHST	69.34(min)		
Frac Gradient	0		
	0.950 (psi/ft)		

**CASING Surface Pumping Schedule**

Trt-Stage	Stage Desc.	Fluid Desc.	Rate-Liq+Prop (bbl/min)	Clean Vol. (Gal)	Proppant	Proppant Conc. (lbm/gal)	Prop. Mass (lbm)
20-1	Pad	Slick Water	50.0	34000		0.00	0
20-2	Proppant Laden Fluid	Slick Water	50.0	17500	Premium White-20/40	0.50	8750
20-3	Proppant Laden Fluid	30# pHaserFrac (PPT)	50.0	8750	Premium White-20/40	1.00	8750
20-4	Proppant Laden Fluid	30# pHaserFrac (PPT)	50.0	21875	Premium White-20/40	2.00	43750
20-5	Proppant Laden Fluid	30# pHaserFrac (PPT)	50.0	21000	Premium White-20/40	2.50	52500
20-6	Proppant Laden Fluid	30# pHaserFrac (PPT)	50.0	11667	Premium White-20/40	3.00	35001
20-7	Proppant Laden Fluid	30# pHaserFrac (PPT)	50.0	6563	Premium White-20/40	4.00	26252
20-8	Spacer	Slick Water	50.0	1500		0.00	0
20-9	Flush	Slick Water	50.0	14824		0.00	0
<b>Totals</b>				<b>137679</b>			<b>175003</b>

**2.2.23 Treatment Interval 21**

Well Name	BOOTH/G-26H	Slick Water	67824.0
Job Name	30 Stage pHaserFrac –		
Mid Perf MD	175,000 lbs/stage	30# pHaserFrac (PPT)	69855.0
No. of Perfs/Jets	9148(ft)	Premium White-20/40	175003
Estimated Pump Time	0		
BHST	69.34(min)		
Frac Gradient	0		
	0.950 (psi/ft)		

**CASING Surface Pumping Schedule**

Trt-Stage	Stage Desc.	Fluid Desc.	Rate-Liq+Prop (bbl/min)	Clean Vol. (Gal)	Proppant	Proppant Conc. (lbm/gal)	Prop. Mass (lbm)
21-1	Pad	Slick Water	50.0	34000		0.00	0
21-2	Proppant Laden Fluid	Slick Water	50.0	17500	Premium White-20/40	0.50	8750
21-3	Proppant Laden Fluid	30# pHaserFrac (PPT)	50.0	8750	Premium White-20/40	1.00	8750
21-4	Proppant Laden Fluid	30# pHaserFrac (PPT)	50.0	21875	Premium White-20/40	2.00	43750
21-5	Proppant Laden Fluid	30# pHaserFrac (PPT)	50.0	21000	Premium White-20/40	2.50	52500
21-6	Proppant Laden Fluid	30# pHaserFrac (PPT)	50.0	11667	Premium White-20/40	3.00	35001
21-7	Proppant Laden Fluid	30# pHaserFrac (PPT)	50.0	6563	Premium White-20/40	4.00	26252
21-8	Spacer	Slick Water	50.0	1500		0.00	0
21-9	Flush	Slick Water	50.0	14824		0.00	0
<b>Totals</b>				<b>137679</b>			<b>175003</b>

**2.2.24 Treatment Interval 22**

Well Name	BOOTH/G-26H	Slick Water	67824.0
Job Name	30 Stage pHaserFrac –		
Mid Perf MD	175,000 lbs/stage	30# pHaserFrac (PPT)	69855.0
No. of Perfs/Jets	8991(ft)	Premium White-20/40	175003
Estimated Pump Time	0		
BHST	69.34(min)		
Frac Gradient	0		
	0.950 (psi/ft)		

**CASING Surface Pumping Schedule**

Trt- Stage	Stage Desc.	Fluid Desc.	Rate- Liq+Prop (bbl/min)	Clean Vol. (Gal)	Proppant	Proppant Conc. (lbm/gal)	Prop. Mass (lbm)
22-1	Pad	Slick Water	50.0	34000		0.00	0
22-2	Proppant Laden Fluid	Slick Water	50.0	17500	Premium White-20/40	0.50	8750
22-3	Proppant Laden Fluid	30# pHaserFrac (PPT)	50.0	8750	Premium White-20/40	1.00	8750
22-4	Proppant Laden Fluid	30# pHaserFrac (PPT)	50.0	21875	Premium White-20/40	2.00	43750
22-5	Proppant Laden Fluid	30# pHaserFrac (PPT)	50.0	21000	Premium White-20/40	2.50	52500
22-6	Proppant Laden Fluid	30# pHaserFrac (PPT)	50.0	11667	Premium White-20/40	3.00	35001
22-7	Proppant Laden Fluid	30# pHaserFrac (PPT)	50.0	6563	Premium White-20/40	4.00	26252
22-8	Spacer	Slick Water	50.0	1500		0.00	0
22-9	Flush	Slick Water	50.0	14824		0.00	0
<b>Totals</b>				<b>137679</b>			<b>175003</b>

**2.2.25 Treatment Interval 23**

Well Name	BOOTH/G-26H	Slick Water	67824.0
Job Name	30 Stage pHaserFrac –		
Mid Perf MD	175,000 lbs/stage	30# pHaserFrac (PPT)	69855.0
No. of Perfs/Jets	8835(ft)	Premium White-20/40	175003
Estimated Pump Time	0		
BHST	69.34(min)		
Frac Gradient	0		
	0.950 (psi/ft)		

**CASING Surface Pumping Schedule**

Trt-Stage	Stage Desc.	Fluid Desc.	Rate-Liq+Prop (bbl/min)	Clean Vol. (Gal)	Proppant	Proppant Conc. (lbm/gal)	Prop. Mass (lbm)
23-1	Pad	Slick Water	50.0	34000		0.00	0
23-2	Proppant Laden Fluid	Slick Water	50.0	17500	Premium White-20/40	0.50	8750
23-3	Proppant Laden Fluid	30# pHaserFrac (PPT)	50.0	8750	Premium White-20/40	1.00	8750
23-4	Proppant Laden Fluid	30# pHaserFrac (PPT)	50.0	21875	Premium White-20/40	2.00	43750
23-5	Proppant Laden Fluid	30# pHaserFrac (PPT)	50.0	21000	Premium White-20/40	2.50	52500
23-6	Proppant Laden Fluid	30# pHaserFrac (PPT)	50.0	11667	Premium White-20/40	3.00	35001
23-7	Proppant Laden Fluid	30# pHaserFrac (PPT)	50.0	6563	Premium White-20/40	4.00	26252
23-8	Spacer	Slick Water	50.0	1500		0.00	0
23-9	Flush	Slick Water	50.0	14824		0.00	0
<b>Totals</b>				<b>137679</b>			<b>175003</b>

**2.2.26 Treatment Interval 24**

Well Name	BOOTH/G-26H	30# pHaserFrac (PPT)	69855.0
Job Name	30 Stage pHaserFrac – 175,000 lbs/stage	Slick Water	67824.0
Mid Perf MD	8678(ft)	Premium White-20/40	175003
No. of Perfs/Jets	0		
Estimated Pump Time	69.34(min)		
BHST	0		
Frac Gradient	0.950 (psi/ft)		

**CASING Surface Pumping Schedule**

Trt- Stage	Stage Desc.	Fluid Desc.	Rate- Liq+Prop (bbl/min)	Clean Vol. (Gal)	Proppant	Proppant Conc. (lbm/gal)	Prop. Mass (lbm)
24-1	Pad	Slick Water	50.0	34000		0.00	0
24-2	Proppant Laden Fluid	Slick Water	50.0	17500	Premium White-20/40	0.50	8750
24-3	Proppant Laden Fluid	30# pHaserFrac (PPT)	50.0	8750	Premium White-20/40	1.00	8750
24-4	Proppant Laden Fluid	30# pHaserFrac (PPT)	50.0	21875	Premium White-20/40	2.00	43750
24-5	Proppant Laden Fluid	30# pHaserFrac (PPT)	50.0	21000	Premium White-20/40	2.50	52500
24-6	Proppant Laden Fluid	30# pHaserFrac (PPT)	50.0	11667	Premium White-20/40	3.00	35001
24-7	Proppant Laden Fluid	30# pHaserFrac (PPT)	50.0	6563	Premium White-20/40	4.00	26252
24-8	Spacer	Slick Water	50.0	1500		0.00	0
24-9	Flush	Slick Water	50.0	14824		0.00	0
<b>Totals</b>				<b>137679</b>			<b>175003</b>

**2.2.27 Treatment Interval 25**

Well Name	BOOTH/G-26H	Slick Water	67824.0
Job Name	30 Stage pHaserFrac –		
Mid Perf MD	175,000 lbs/stage	30# pHaserFrac (PPT)	69855.0
No. of Perfs/Jets	8521(ft)	Premium White-20/40	175003
Estimated Pump Time	0		
BHST	69.34(min)		
Frac Gradient	0		
	0.950 (psi/ft)		

**CASING Surface Pumping Schedule**

Trt-Stage	Stage Desc.	Fluid Desc.	Rate-Liq+Prop (bbl/min)	Clean Vol. (Gal)	Proppant	Proppant Conc. (lbm/gal)	Prop. Mass (lbm)
25-1	Pad	Slick Water	50.0	34000		0.00	0
25-2	Proppant Laden Fluid	Slick Water	50.0	17500	Premium White-20/40	0.50	8750
25-3	Proppant Laden Fluid	30# pHaserFrac (PPT)	50.0	8750	Premium White-20/40	1.00	8750
25-4	Proppant Laden Fluid	30# pHaserFrac (PPT)	50.0	21875	Premium White-20/40	2.00	43750
25-5	Proppant Laden Fluid	30# pHaserFrac (PPT)	50.0	21000	Premium White-20/40	2.50	52500
25-6	Proppant Laden Fluid	30# pHaserFrac (PPT)	50.0	11667	Premium White-20/40	3.00	35001
25-7	Proppant Laden Fluid	30# pHaserFrac (PPT)	50.0	6563	Premium White-20/40	4.00	26252
25-8	Spacer	Slick Water	50.0	1500		0.00	0
25-9	Flush	Slick Water	50.0	14824		0.00	0
<b>Totals</b>				<b>137679</b>			<b>175003</b>

**2.2.28 Treatment Interval 26**

Well Name	BOOTH/G-26H	Slick Water	67824.0
Job Name	30 Stage pHaserFrac –		
Mid Perf MD	175,000 lbs/stage	30# pHaserFrac (PPT)	69855.0
No. of Perfs/Jets	8365(ft)	Premium White-20/40	175003
Estimated Pump Time	0		
BHST	69.34(min)		
Frac Gradient	0		
	0.950 (psi/ft)		

**CASING Surface Pumping Schedule**

Trt-Stage	Stage Desc.	Fluid Desc.	Rate-Liq+Prop (bbl/min)	Clean Vol. (Gal)	Proppant	Proppant Conc. (lbm/gal)	Prop. Mass (lbm)
26-1	Pad	Slick Water	50.0	34000		0.00	0
26-2	Proppant Laden Fluid	Slick Water	50.0	17500	Premium White-20/40	0.50	8750
26-3	Proppant Laden Fluid	30# pHaserFrac (PPT)	50.0	8750	Premium White-20/40	1.00	8750
26-4	Proppant Laden Fluid	30# pHaserFrac (PPT)	50.0	21875	Premium White-20/40	2.00	43750
26-5	Proppant Laden Fluid	30# pHaserFrac (PPT)	50.0	21000	Premium White-20/40	2.50	52500
26-6	Proppant Laden Fluid	30# pHaserFrac (PPT)	50.0	11667	Premium White-20/40	3.00	35001
26-7	Proppant Laden Fluid	30# pHaserFrac (PPT)	50.0	6563	Premium White-20/40	4.00	26252
26-8	Spacer	Slick Water	50.0	1500		0.00	0
26-9	Flush	Slick Water	50.0	14824		0.00	0
<b>Totals</b>				<b>137679</b>			<b>175003</b>

**2.2.29 Treatment Interval 27**

Well Name	BOOTH/G-26H	Slick Water	67824.0
Job Name	30 Stage pHaserFrac –		
Mid Perf MD	175,000 lbs/stage	30# pHaserFrac (PPT)	69855.0
No. of Perfs/Jets	8208(ft)	Premium White-20/40	175003
Estimated Pump Time	0		
BHST	69.34(min)		
Frac Gradient	0		
	0.950 (psi/ft)		

**CASING Surface Pumping Schedule**

Trt-Stage	Stage Desc.	Fluid Desc.	Rate-Liq+Prop (bbl/min)	Clean Vol. (Gal)	Proppant	Proppant Conc. (lbm/gal)	Prop. Mass (lbm)
27-1	Pad	Slick Water	50.0	34000		0.00	0
27-2	Proppant Laden Fluid	Slick Water	50.0	17500	Premium White-20/40	0.50	8750
27-3	Proppant Laden Fluid	30# pHaserFrac (PPT)	50.0	8750	Premium White-20/40	1.00	8750
27-4	Proppant Laden Fluid	30# pHaserFrac (PPT)	50.0	21875	Premium White-20/40	2.00	43750
27-5	Proppant Laden Fluid	30# pHaserFrac (PPT)	50.0	21000	Premium White-20/40	2.50	52500
27-6	Proppant Laden Fluid	30# pHaserFrac (PPT)	50.0	11667	Premium White-20/40	3.00	35001
27-7	Proppant Laden Fluid	30# pHaserFrac (PPT)	50.0	6563	Premium White-20/40	4.00	26252
27-8	Spacer	Slick Water	50.0	1500		0.00	0
27-9	Flush	Slick Water	50.0	14824		0.00	0
<b>Totals</b>				<b>137679</b>			<b>175003</b>

**2.2.30 Treatment Interval 28**

Well Name	BOOTH/G-26H	Slick Water	67824.0
Job Name	30 Stage pHaserFrac –		
Mid Perf MD	175,000 lbs/stage	30# pHaserFrac (PPT)	69855.0
No. of Perfs/Jets	8052(ft)	Premium White-20/40	175003
Estimated Pump Time	0		
BHST	69.34(min)		
Frac Gradient	0		
	0.950 (psi/ft)		

**CASING Surface Pumping Schedule**

Trt-Stage	Stage Desc.	Fluid Desc.	Rate-Liq+Prop (bbl/min)	Clean Vol. (Gal)	Proppant	Proppant Conc. (lbm/gal)	Prop. Mass (lbm)
28-1	Pad	Slick Water	50.0	34000		0.00	0
28-2	Proppant Laden Fluid	Slick Water	50.0	17500	Premium White-20/40	0.50	8750
28-3	Proppant Laden Fluid	30# pHaserFrac (PPT)	50.0	8750	Premium White-20/40	1.00	8750
28-4	Proppant Laden Fluid	30# pHaserFrac (PPT)	50.0	21875	Premium White-20/40	2.00	43750
28-5	Proppant Laden Fluid	30# pHaserFrac (PPT)	50.0	21000	Premium White-20/40	2.50	52500
28-6	Proppant Laden Fluid	30# pHaserFrac (PPT)	50.0	11667	Premium White-20/40	3.00	35001
28-7	Proppant Laden Fluid	30# pHaserFrac (PPT)	50.0	6563	Premium White-20/40	4.00	26252
28-8	Spacer	Slick Water	50.0	1500		0.00	0
28-9	Flush	Slick Water	50.0	14824		0.00	0
<b>Totals</b>				<b>137679</b>			<b>175003</b>

**2.2.31 Treatment Interval 29**

Well Name	BOOTH/G-26H	Slick Water	67824.0
Job Name	30 Stage pHaserFrac –		
Mid Perf MD	175,000 lbs/stage	30# pHaserFrac (PPT)	69855.0
No. of Perfs/Jets	7895(ft)	Premium White-20/40	175003
Estimated Pump Time	0		
BHST	69.34(min)		
Frac Gradient	0		
	0.950 (psi/ft)		

**CASING Surface Pumping Schedule**

Trt- Stage	Stage Desc.	Fluid Desc.	Rate- Liq+Prop (bbl/min)	Clean Vol. (Gal)	Proppant	Proppant Conc. (lbm/gal)	Prop. Mass (lbm)
29-1	Pad	Slick Water	50.0	34000		0.00	0
29-2	Proppant Laden Fluid	Slick Water	50.0	17500	Premium White-20/40	0.50	8750
29-3	Proppant Laden Fluid	30# pHaserFrac (PPT)	50.0	8750	Premium White-20/40	1.00	8750
29-4	Proppant Laden Fluid	30# pHaserFrac (PPT)	50.0	21875	Premium White-20/40	2.00	43750
29-5	Proppant Laden Fluid	30# pHaserFrac (PPT)	50.0	21000	Premium White-20/40	2.50	52500
29-6	Proppant Laden Fluid	30# pHaserFrac (PPT)	50.0	11667	Premium White-20/40	3.00	35001
29-7	Proppant Laden Fluid	30# pHaserFrac (PPT)	50.0	6563	Premium White-20/40	4.00	26252
29-8	Spacer	Slick Water	50.0	1500		0.00	0
29-9	Flush	Slick Water	50.0	14824		0.00	0
<b>Totals</b>				<b>137679</b>			<b>175003</b>

**2.2.32 Treatment Interval 30**

Well Name	BOOTH/G-26H	Slick Water	67824.0
Job Name	30 Stage pHaserFrac –		
Mid Perf MD	175,000 lbs/stage	30# pHaserFrac (PPT)	69855.0
No. of Perfs/Jets	7739(ft)	Premium White-20/40	175003
Estimated Pump Time	0		
BHST	69.34(min)		
Frac Gradient	0		
	0.950 (psi/ft)		

**CASING Surface Pumping Schedule**

Trt-Stage	Stage Desc.	Fluid Desc.	Rate-Liq+Prop (bbl/min)	Clean Vol. (Gal)	Proppant	Proppant Conc. (lbm/gal)	Prop. Mass (lbm)
30-1	Pad	Slick Water	50.0	34000		0.00	0
30-2	Proppant Laden Fluid	Slick Water	50.0	17500	Premium White-20/40	0.50	8750
30-3	Proppant Laden Fluid	30# pHaserFrac (PPT)	50.0	8750	Premium White-20/40	1.00	8750
30-4	Proppant Laden Fluid	30# pHaserFrac (PPT)	50.0	21875	Premium White-20/40	2.00	43750
30-5	Proppant Laden Fluid	30# pHaserFrac (PPT)	50.0	21000	Premium White-20/40	2.50	52500
30-6	Proppant Laden Fluid	30# pHaserFrac (PPT)	50.0	11667	Premium White-20/40	3.00	35001
30-7	Proppant Laden Fluid	30# pHaserFrac (PPT)	50.0	6563	Premium White-20/40	4.00	26252
30-8	Spacer	Slick Water	50.0	1500		0.00	0
30-9	Flush	Slick Water	50.0	14824		0.00	0
<b>Totals</b>				<b>137679</b>			<b>175003</b>

## 2.3 Cost Estimate

Mtrl Nbr	Description	Qty	UOM	Unit Price	Net Amount
342341	PE BOM-Gelled Water Frac - Conventional	1.00	JOB	0.00	0.00
<b>Equipment Charge (Per Stage)</b>					
432054	PE Frac Crew Rental <i>Per Stage</i>	30.00	EA	12,700.00	381,000.00
756857	SBM PHASER FRAC (PPT) 30# pHaserFrac (PPT) UNIT OF MEASURE - MLB TOTAL GEL PPT	2,095,650.00 MLB 30	GAL	10,760.00	575,004.45
100003707	CHEM-WG-18 - 1000# BAGS-BULK <i>WG-18, 1000 LB BAG (100003707)</i>	37,722.00	LB	0.00	0.00
847070	CHEM, CL-23, BULK <i>CL-23, BULK (847070)</i>	1,048.00	GAL	0.00	0.00
850817	CHEM, BA-20, BULK <i>BA-20, BULK (850817)</i>	2,096.00	GAL	0.00	0.00
851217	CHEM, CAT-3, BULK <i>CAT-3, BULK (851217)</i>	819.00	GAL	149.27	9,780.17
467131	SBM FR-56 Water	2,034,720.00	GAL	0.00	0.00
101766303	CHEM - FR-66 - BULK <i>FR-66, BULK (101766303)</i>	1,018.00	GAL	152.55	12,423.67
101985043	CHEM, CLA-WEB - BULK <i>CLA-WEB - BULK (101985043)</i>	1,033.00	GAL	474.30	39,196.15
101649552	CHEM, BE-7, TOTE TANK <i>BE-7, TOTE TANK (101649552)</i>	1,240.00	GAL	25.83	4,804.38
101790405	CHEM, OPTIKLEEN-WF, 55 LB BAG <i>OPTIKLEEN-WF, 55 LB BAG (101790405)</i>	1,018.00	LB	15.37	1,251.73
101786369	CHEM, VICON NF BREAKER, BULK <i>VICON NF, BULK (101786369)</i>	6,287.00	GAL	82.59	41,539.47
839111	Chem, OilPerm FMM-1, BULK <i>OILPERM FMM-1, BULK (839111)</i>	8,261.00	GAL	280.00	185,046.40
<b>Proppant Charges</b>					
100003678	Sand-Premium White-20/40, bulk <i>SAND - PREMIUM - 20/40, BULK, SK (100003678)</i>	52,501.00	SK	180.00	444,158.46
216319	PE PROPPANT HANDLING/STORAGE SOL CHARGE <i>Proppant Handl &amp; Stor. Sol Chg Per lb</i>	5,250,090.00	LB	0.09	47,250.81
216318	PE PROPPANT DEL SOL CHARGE PER TON MILE <i>Proppant Del Sol Chg, per ton mile</i>	65,627.00	TNM	4.05	26,578.93
	<b>Total Gross Amount</b>				<b>36,766,170.57</b>
	<b>Total Discounts</b>				<b>34,998,135.95</b>
	<b>Total Net Amount</b>	<b>USD</b>			<b>1,768,034.62</b>

**Primary Plant:** Fort Lupton, CO, USA  
**Secondary Plant:** Fort Lupton, CO, USA

**Price Book Ref:** 28 - ROCKIES  
**Price Date:** 1/1/2014

### **3 Conditions**

The cost in this analysis is good for the materials and/or services outlined within and shall be valid for 30 days from the date of this proposal. In order to meet your needs under this proposal with a high quality of service and responsive timing, Halliburton will be allocating limited resources and committing valuable equipment and materials to your area of operations. Accordingly, the discounts reflected in this proposal are available only for materials and services awarded on a first-call basis. Alternate pricing may apply in the event that Halliburton is awarded work on any basis other than as a first-call provider.

The unit prices stated in the proposal are based on our current published prices. The projected equipment, personnel, and material needs are only estimates based on information about the work presently available to us. At the time the work is actually performed, conditions then existing may require an increase or decrease in the equipment, personnel, and/or material needs. Charges will be based upon unit prices in effect at the time the work is performed and the amount of equipment, personnel, and/or material actually utilized in the work. Taxes, if any, are not included. Applicable taxes, if any, will be added to the actual invoice.

It is understood and agreed between the parties that with the exception of the subject discounts, all services performed and equipment and materials sold are provided subject to Halliburton's General Terms and Conditions contained in our current price list, (which include LIMITATION OF LIABILITY and WARRANTY provisions), and pursuant to the applicable Halliburton Work Order Contract (whether or not executed by you), unless a Master Service and/or Sales Contract applicable to the services, equipment, or materials supplied exists between your company and Halliburton, in which case the negotiated Master Contract shall govern the relationship between the parties. A copy of the latest version of our General Terms and Conditions is available from your Halliburton representative or at: <http://www.halliburton.com/terms> for your convenient review, and we would appreciate receiving any questions you may have about them. Should your company be interested in negotiating a Master Contract with Halliburton, our Law Department would be pleased to work with you to finalize a mutually agreeable contract. In this connection, it is also understood and agreed that Customer will continue to execute Halliburton usual field work orders and/or tickets customarily required by Halliburton in connection with the furnishing of said services, equipment, and materials.

Any terms and conditions contained in purchase orders or other documents issued by the customer shall be of no effect except to confirm the type and quantity of services, equipment, and materials to be supplied to the customer.

If customer does not have an approved open account with Halliburton or a mutually executed written contract with Halliburton, which dictates payment terms different than those set forth in this clause, all sums due are payable in cash at the time of performance of services or delivery of equipment, products, or materials. If customer has an approved open account, invoices are payable on the twentieth day after date of invoice.

Customer agrees to pay interest on any unpaid balance from the date payable until paid at the highest lawful contract rate applicable, but never to exceed 18% per annum. In the event Halliburton employs an attorney for collection of any account, customer agrees to pay attorney fees of 20% of the unpaid account, plus all collection and court costs.

**Customer**  
**Lease**  
**Formation**

**Bayswater E&P**  
**Booth G-26H**  
**Codell**

API 05-123-36082-00

**HALLIBURTON** | Production Enhancement

Treatment Interval	Stage Number	Fluid Description	Stage Description	Proppant Description	Prop Conc (ppg)	Slurry Rate (bpm)	Design Clean Volume (gal)	Design Clean Volume (bbl)	CL-23 (gpt)	BA-20 (gpt)	OilPerm FMM-1 (gpt)	CLA-Web (gpt)	ViCon NF (gpt)	CAT-3 (gpt)	BE-7 (gpt)	FR-66 (gpt)	Optikleen-WF (ppt)	WG-18 (ppt)
1	1	FR Water	Pad			50	34,000	809.5			2.00	0.25			0.30	0.50	0.50	
	2	FR Water	Proppant Laden Fluid	Premium White 20/40	0.50	50	17,500	416.7			2.00	0.25			0.30	0.50	0.50	
	3	30# pHaserFrac	Proppant Laden Fluid	Premium White 20/40	1.00	50	8,750	208.3	0.50	2.00	2.00	0.25	3.00	0.25	0.30			30.00
	4	30# pHaserFrac	Proppant Laden Fluid	Premium White 20/40	2.00	50	21,875	520.8	0.50	2.00	2.00	0.25	3.00	0.25	0.30			30.00
	5	30# pHaserFrac	Proppant Laden Fluid	Premium White 20/40	2.50	50	21,000	500.0	0.50	2.00	2.00	0.25	3.00	0.50	0.30			30.00
	6	30# pHaserFrac	Proppant Laden Fluid	Premium White 20/40	3.00	50	11,667	277.8	0.50	2.00	2.00	0.25	3.00	0.50	0.30			30.00
	7	30# pHaserFrac	Proppant Laden Fluid	Premium White 20/40	4.00	50	6,563	156.3	0.50	2.00	2.00	0.25	3.00	0.50	0.30			30.00
	8	FR Water	Spacer			50	1,500	35.7			2.00	0.25			0.30	0.50	0.50	
	9	FR Water	Flush			50	14,824	353.0			2.00	0.25			0.30	0.50	0.50	
2	10	FR Water	Pad			50	34,000	809.5			2.00	0.25			0.30	0.50	0.50	
	11	FR Water	Proppant Laden Fluid	Premium White 20/40	0.50	50	17,500	416.7			2.00	0.25			0.30	0.50	0.50	
	12	30# pHaserFrac	Proppant Laden Fluid	Premium White 20/40	1.00	50	8,750	208.3	0.50	2.00	2.00	0.25	3.00	0.25	0.30			30.00
	13	30# pHaserFrac	Proppant Laden Fluid	Premium White 20/40	2.00	50	21,875	520.8	0.50	2.00	2.00	0.25	3.00	0.25	0.30			30.00
	14	30# pHaserFrac	Proppant Laden Fluid	Premium White 20/40	2.50	50	21,000	500.0	0.50	2.00	2.00	0.25	3.00	0.50	0.30			30.00
	15	30# pHaserFrac	Proppant Laden Fluid	Premium White 20/40	3.00	50	11,667	277.8	0.50	2.00	2.00	0.25	3.00	0.50	0.30			30.00
	16	30# pHaserFrac	Proppant Laden Fluid	Premium White 20/40	4.00	50	6,563	156.3	0.50	2.00	2.00	0.25	3.00	0.50	0.30			30.00
	17	FR Water	Spacer			50	1,500	35.7			2.00	0.25			0.30	0.50	0.50	
	18	FR Water	Flush			50	14,824	353.0			2.00	0.25			0.30	0.50	0.50	
3	19	FR Water	Pad			50	34,000	809.5			2.00	0.25			0.30	0.50	0.50	
	20	FR Water	Proppant Laden Fluid	Premium White 20/40	0.50	50	17,500	416.7			2.00	0.25			0.30	0.50	0.50	
	21	30# pHaserFrac	Proppant Laden Fluid	Premium White 20/40	1.00	50	8,750	208.3	0.50	2.00	2.00	0.25	3.00	0.25	0.30			30.00
	22	30# pHaserFrac	Proppant Laden Fluid	Premium White 20/40	2.00	50	21,875	520.8	0.50	2.00	2.00	0.25	3.00	0.25	0.30			30.00
	23	30# pHaserFrac	Proppant Laden Fluid	Premium White 20/40	2.50	50	21,000	500.0	0.50	2.00	2.00	0.25	3.00	0.50	0.30			30.00
	24	30# pHaserFrac	Proppant Laden Fluid	Premium White 20/40	3.00	50	11,667	277.8	0.50	2.00	2.00	0.25	3.00	0.50	0.30			30.00
	25	30# pHaserFrac	Proppant Laden Fluid	Premium White 20/40	4.00	50	6,563	156.3	0.50	2.00	2.00	0.25	3.00	0.50	0.30			30.00
	26	FR Water	Spacer			50	1,500	35.7			2.00	0.25			0.30	0.50	0.50	
	27	FR Water	Flush			50	14,824	353.0			2.00	0.25			0.30	0.50	0.50	
4	28	FR Water	Pad			50	34,000	809.5			2.00	0.25			0.30	0.50	0.50	
	29	FR Water	Proppant Laden Fluid	Premium White 20/40	0.50	50	17,500	416.7			2.00	0.25			0.30	0.50	0.50	
	30	30# pHaserFrac	Proppant Laden Fluid	Premium White 20/40	1.00	50	8,750	208.3	0.50	2.00	2.00	0.25	3.00	0.25	0.30			30.00
	31	30# pHaserFrac	Proppant Laden Fluid	Premium White 20/40	2.00	50	21,875	520.8	0.50	2.00	2.00	0.25	3.00	0.25	0.30			30.00
	32	30# pHaserFrac	Proppant Laden Fluid	Premium White 20/40	2.50	50	21,000	500.0	0.50	2.00	2.00	0.25	3.00	0.50	0.30			30.00
	33	30# pHaserFrac	Proppant Laden Fluid	Premium White 20/40	3.00	50	11,667	277.8	0.50	2.00	2.00	0.25	3.00	0.50	0.30			30.00
	34	30# pHaserFrac	Proppant Laden Fluid	Premium White 20/40	4.00	50	6,563	156.3	0.50	2.00	2.00	0.25	3.00	0.50	0.30			30.00
	35	FR Water	Spacer			50	1,500	35.7			2.00	0.25			0.30	0.50	0.50	
	36	FR Water	Flush			50	14,824	353.0			2.00	0.25			0.30	0.50	0.50	
5	37	FR Water	Pad			50	34,000	809.5			2.00	0.25			0.30	0.50	0.50	
	38	FR Water	Proppant Laden Fluid	Premium White 20/40	0.50	50	17,500	416.7			2.00	0.25			0.30	0.50	0.50	
	39	30# pHaserFrac	Proppant Laden Fluid	Premium White 20/40	1.00	50	8,750	208.3	0.50	2.00	2.00	0.25	3.00	0.25	0.30			30.00
	40	30# pHaserFrac	Proppant Laden Fluid	Premium White 20/40	2.00	50	21,875	520.8	0.50	2.00	2.00	0.25	3.00	0.25	0.30			30.00
	41	30# pHaserFrac	Proppant Laden Fluid	Premium White 20/40	2.50	50	21,000	500.0	0.50	2.00	2.00	0.25	3.00	0.50	0.30			30.00
	42	30# pHaserFrac	Proppant Laden Fluid	Premium White 20/40	3.00	50	11,667	277.8	0.50	2.00	2.00	0.25	3.00	0.50	0.30			30.00
	43	30# pHaserFrac	Proppant Laden Fluid	Premium White 20/40	4.00	50	6,563	156.3	0.50	2.00	2.00	0.25	3.00	0.50	0.30			30.00
	44	FR Water	Spacer			50	1,500	35.7			2.00	0.25			0.30	0.50	0.50	
	45	FR Water	Flush			50	14,824	353.0			2.00	0.25			0.30	0.50	0.50	

Customer  
Lease  
Formation

Bayswater E&P  
Booth G-26H  
Codell

API 05-123-36082-00

HALLIBURTON | Production  
Enhancement

Treatment Interval	Stage Number	Fluid Description	Stage Description	Proppant Description	Prop Conc (ppg)	Slurry Rate (bpm)	Design Clean Volume (gal)	Design Clean Volume (bbl)	CL-23 (gpt)	BA-20 (gpt)	OilPerm FMM-1 (gpt)	CLA-Web (gpt)	ViCon NF (gpt)	CAT-3 (gpt)	BE-7 (gpt)	FR-66 (gpt)	Optikleen-WF (ppt)	WG-18 (ppt)
6	46	FR Water	Pad			50	34,000	809.5			2.00	0.25			0.30	0.50	0.50	
	47	FR Water	Proppant Laden Fluid	Premium White 20/40	0.50	50	17,500	416.7			2.00	0.25			0.30	0.50	0.50	
	48	30# pHaserFrac	Proppant Laden Fluid	Premium White 20/40	1.00	50	8,750	208.3	0.50	2.00	2.00	0.25	3.00	0.25	0.30			30.00
	49	30# pHaserFrac	Proppant Laden Fluid	Premium White 20/40	2.00	50	21,875	520.8	0.50	2.00	2.00	0.25	3.00	0.25	0.30			30.00
	50	30# pHaserFrac	Proppant Laden Fluid	Premium White 20/40	2.50	50	21,000	500.0	0.50	2.00	2.00	0.25	3.00	0.50	0.30			30.00
	51	30# pHaserFrac	Proppant Laden Fluid	Premium White 20/40	3.00	50	11,667	277.8	0.50	2.00	2.00	0.25	3.00	0.50	0.30			30.00
	52	30# pHaserFrac	Proppant Laden Fluid	Premium White 20/40	4.00	50	6,563	156.3	0.50	2.00	2.00	0.25	3.00	0.50	0.30			30.00
	53	FR Water	Spacer			50	1,500	35.7			2.00	0.25			0.30	0.50	0.50	
7	54	FR Water	Flush			50	14,824	353.0			2.00	0.25			0.30	0.50	0.50	
	55	FR Water	Pad			50	34,000	809.5			2.00	0.25			0.30	0.50	0.50	
	56	FR Water	Proppant Laden Fluid	Premium White 20/40	0.50	50	17,500	416.7			2.00	0.25			0.30	0.50	0.50	
	57	30# pHaserFrac	Proppant Laden Fluid	Premium White 20/40	1.00	50	8,750	208.3	0.50	2.00	2.00	0.25	3.00	0.25	0.30			30.00
	58	30# pHaserFrac	Proppant Laden Fluid	Premium White 20/40	2.00	50	21,875	520.8	0.50	2.00	2.00	0.25	3.00	0.25	0.30			30.00
	59	30# pHaserFrac	Proppant Laden Fluid	Premium White 20/40	2.50	50	21,000	500.0	0.50	2.00	2.00	0.25	3.00	0.50	0.30			30.00
	60	30# pHaserFrac	Proppant Laden Fluid	Premium White 20/40	3.00	50	11,667	277.8	0.50	2.00	2.00	0.25	3.00	0.50	0.30			30.00
	61	30# pHaserFrac	Proppant Laden Fluid	Premium White 20/40	4.00	50	6,563	156.3	0.50	2.00	2.00	0.25	3.00	0.50	0.30			30.00
8	62	FR Water	Spacer			50	1,500	35.7			2.00	0.25			0.30	0.50	0.50	
	63	FR Water	Flush			50	14,824	353.0			2.00	0.25			0.30	0.50	0.50	
	64	FR Water	Pad			50	34,000	809.5			2.00	0.25			0.30	0.50	0.50	
	65	FR Water	Proppant Laden Fluid	Premium White 20/40	0.50	50	17,500	416.7			2.00	0.25			0.30	0.50	0.50	
	66	30# pHaserFrac	Proppant Laden Fluid	Premium White 20/40	1.00	50	8,750	208.3	0.50	2.00	2.00	0.25	3.00	0.25	0.30			30.00
	67	30# pHaserFrac	Proppant Laden Fluid	Premium White 20/40	2.00	50	21,875	520.8	0.50	2.00	2.00	0.25	3.00	0.25	0.30			30.00
	68	30# pHaserFrac	Proppant Laden Fluid	Premium White 20/40	2.50	50	21,000	500.0	0.50	2.00	2.00	0.25	3.00	0.50	0.30			30.00
	69	30# pHaserFrac	Proppant Laden Fluid	Premium White 20/40	3.00	50	11,667	277.8	0.50	2.00	2.00	0.25	3.00	0.50	0.30			30.00
9	70	30# pHaserFrac	Proppant Laden Fluid	Premium White 20/40	4.00	50	6,563	156.3	0.50	2.00	2.00	0.25	3.00	0.50	0.30			30.00
	71	FR Water	Spacer			50	1,500	35.7			2.00	0.25			0.30	0.50	0.50	
	72	FR Water	Flush			50	14,824	353.0			2.00	0.25			0.30	0.50	0.50	
	73	FR Water	Pad			50	34,000	809.5			2.00	0.25			0.30	0.50	0.50	
	74	FR Water	Proppant Laden Fluid	Premium White 20/40	0.50	50	17,500	416.7			2.00	0.25			0.30	0.50	0.50	
	75	30# pHaserFrac	Proppant Laden Fluid	Premium White 20/40	1.00	50	8,750	208.3	0.50	2.00	2.00	0.25	3.00	0.25	0.30			30.00
	76	30# pHaserFrac	Proppant Laden Fluid	Premium White 20/40	2.00	50	21,875	520.8	0.50	2.00	2.00	0.25	3.00	0.25	0.30			30.00
	77	30# pHaserFrac	Proppant Laden Fluid	Premium White 20/40	2.50	50	21,000	500.0	0.50	2.00	2.00	0.25	3.00	0.50	0.30			30.00
10	78	30# pHaserFrac	Proppant Laden Fluid	Premium White 20/40	3.00	50	11,667	277.8	0.50	2.00	2.00	0.25	3.00	0.50	0.30			30.00
	79	30# pHaserFrac	Proppant Laden Fluid	Premium White 20/40	4.00	50	6,563	156.3	0.50	2.00	2.00	0.25	3.00	0.50	0.30			30.00
	80	FR Water	Spacer			50	1,500	35.7			2.00	0.25			0.30	0.50	0.50	
	81	FR Water	Flush			50	14,824	353.0			2.00	0.25			0.30	0.50	0.50	
	82	FR Water	Pad			50	34,000	809.5			2.00	0.25			0.30	0.50	0.50	
	83	FR Water	Proppant Laden Fluid	Premium White 20/40	0.50	50	17,500	416.7			2.00	0.25			0.30	0.50	0.50	
	84	30# pHaserFrac	Proppant Laden Fluid	Premium White 20/40	1.00	50	8,750	208.3	0.50	2.00	2.00	0.25	3.00	0.25	0.30			30.00
	85	30# pHaserFrac	Proppant Laden Fluid	Premium White 20/40	2.00	50	21,875	520.8	0.50	2.00	2.00	0.25	3.00	0.25	0.30			30.00
	86	30# pHaserFrac	Proppant Laden Fluid	Premium White 20/40	2.50	50	21,000	500.0	0.50	2.00	2.00	0.25	3.00	0.50	0.30			30.00
	87	30# pHaserFrac	Proppant Laden Fluid	Premium White 20/40	3.00	50	11,667	277.8	0.50	2.00	2.00	0.25	3.00	0.50	0.30			30.00
	88	30# pHaserFrac	Proppant Laden Fluid	Premium White 20/40	4.00	50	6,563	156.3	0.50	2.00	2.00	0.25	3.00	0.50	0.30			30.00
	89	FR Water	Spacer			50	1,500	35.7			2.00	0.25			0.30	0.50	0.50	
	90	FR Water	Flush			50	14,824	353.0			2.00	0.25			0.30	0.50	0.50	

**Customer**  
**Lease**  
**Formation**

**Bayswater E&P**  
**Booth G-26H**  
**Codell**

API 05-123-36082-00

**HALLIBURTON** | Production Enhancement

Treatment Interval	Stage Number	Fluid Description	Stage Description	Proppant Description	Prop Conc (ppg)	Slurry Rate (bpm)	Design Clean Volume (gal)	Design Clean Volume (bbl)	CL-23 (gpt)	BA-20 (gpt)	OilPerm FMM-1 (gpt)	CLA-Web (gpt)	ViCon NF (gpt)	CAT-3 (gpt)	BE-7 (gpt)	FR-66 (gpt)	Optikleen-WF (ppt)	WG-18 (ppt)
11	91	FR Water	Pad			50	34,000	809.5			2.00	0.25			0.30	0.50	0.50	
	92	FR Water	Proppant Laden Fluid	Premium White 20/40	0.50	50	17,500	416.7			2.00	0.25			0.30	0.50	0.50	
	93	30# pHaserFrac	Proppant Laden Fluid	Premium White 20/40	1.00	50	8,750	208.3	0.50	2.00	2.00	0.25	3.00	0.25	0.30			30.00
	94	30# pHaserFrac	Proppant Laden Fluid	Premium White 20/40	2.00	50	21,875	520.8	0.50	2.00	2.00	0.25	3.00	0.25	0.30			30.00
	95	30# pHaserFrac	Proppant Laden Fluid	Premium White 20/40	2.50	50	21,000	500.0	0.50	2.00	2.00	0.25	3.00	0.50	0.30			30.00
	96	30# pHaserFrac	Proppant Laden Fluid	Premium White 20/40	3.00	50	11,667	277.8	0.50	2.00	2.00	0.25	3.00	0.50	0.30			30.00
	97	30# pHaserFrac	Proppant Laden Fluid	Premium White 20/40	4.00	50	6,563	156.3	0.50	2.00	2.00	0.25	3.00	0.50	0.30			30.00
	98	FR Water	Spacer			50	1,500	35.7			2.00	0.25			0.30	0.50	0.50	
	99	FR Water	Flush			50	14,824	353.0			2.00	0.25			0.30	0.50	0.50	
12	100	FR Water	Pad			50	34,000	809.5			2.00	0.25			0.30	0.50	0.50	
	101	FR Water	Proppant Laden Fluid	Premium White 20/40	0.50	50	17,500	416.7			2.00	0.25			0.30	0.50	0.50	
	102	30# pHaserFrac	Proppant Laden Fluid	Premium White 20/40	1.00	50	8,750	208.3	0.50	2.00	2.00	0.25	3.00	0.25	0.30			30.00
	103	30# pHaserFrac	Proppant Laden Fluid	Premium White 20/40	2.00	50	21,875	520.8	0.50	2.00	2.00	0.25	3.00	0.25	0.30			30.00
	104	30# pHaserFrac	Proppant Laden Fluid	Premium White 20/40	2.50	50	21,000	500.0	0.50	2.00	2.00	0.25	3.00	0.50	0.30			30.00
	105	30# pHaserFrac	Proppant Laden Fluid	Premium White 20/40	3.00	50	11,667	277.8	0.50	2.00	2.00	0.25	3.00	0.50	0.30			30.00
	106	30# pHaserFrac	Proppant Laden Fluid	Premium White 20/40	4.00	50	6,563	156.3	0.50	2.00	2.00	0.25	3.00	0.50	0.30			30.00
	107	FR Water	Spacer			50	1,500	35.7			2.00	0.25			0.30	0.50	0.50	
	108	FR Water	Flush			50	14,824	353.0			2.00	0.25			0.30	0.50	0.50	
13	109	FR Water	Pad			50	34,000	809.5			2.00	0.25			0.30	0.50	0.50	
	110	FR Water	Proppant Laden Fluid	Premium White 20/40	0.50	50	17,500	416.7			2.00	0.25			0.30	0.50	0.50	
	111	30# pHaserFrac	Proppant Laden Fluid	Premium White 20/40	1.00	50	8,750	208.3	0.50	2.00	2.00	0.25	3.00	0.25	0.30			30.00
	112	30# pHaserFrac	Proppant Laden Fluid	Premium White 20/40	2.00	50	21,875	520.8	0.50	2.00	2.00	0.25	3.00	0.25	0.30			30.00
	113	30# pHaserFrac	Proppant Laden Fluid	Premium White 20/40	2.50	50	21,000	500.0	0.50	2.00	2.00	0.25	3.00	0.50	0.30			30.00
	114	30# pHaserFrac	Proppant Laden Fluid	Premium White 20/40	3.00	50	11,667	277.8	0.50	2.00	2.00	0.25	3.00	0.50	0.30			30.00
	115	30# pHaserFrac	Proppant Laden Fluid	Premium White 20/40	4.00	50	6,563	156.3	0.50	2.00	2.00	0.25	3.00	0.50	0.30			30.00
	116	FR Water	Spacer			50	1,500	35.7			2.00	0.25			0.30	0.50	0.50	
	117	FR Water	Flush			50	14,824	353.0			2.00	0.25			0.30	0.50	0.50	
14	118	FR Water	Pad			50	34,000	809.5			2.00	0.25			0.30	0.50	0.50	
	119	FR Water	Proppant Laden Fluid	Premium White 20/40	0.50	50	17,500	416.7			2.00	0.25			0.30	0.50	0.50	
	120	30# pHaserFrac	Proppant Laden Fluid	Premium White 20/40	1.00	50	8,750	208.3	0.50	2.00	2.00	0.25	3.00	0.25	0.30			30.00
	121	30# pHaserFrac	Proppant Laden Fluid	Premium White 20/40	2.00	50	21,875	520.8	0.50	2.00	2.00	0.25	3.00	0.25	0.30			30.00
	122	30# pHaserFrac	Proppant Laden Fluid	Premium White 20/40	2.50	50	21,000	500.0	0.50	2.00	2.00	0.25	3.00	0.50	0.30			30.00
	123	30# pHaserFrac	Proppant Laden Fluid	Premium White 20/40	3.00	50	11,667	277.8	0.50	2.00	2.00	0.25	3.00	0.50	0.30			30.00
	124	30# pHaserFrac	Proppant Laden Fluid	Premium White 20/40	4.00	50	6,563	156.3	0.50	2.00	2.00	0.25	3.00	0.50	0.30			30.00
	125	FR Water	Spacer			50	1,500	35.7			2.00	0.25			0.30	0.50	0.50	
	126	FR Water	Flush			50	14,824	353.0			2.00	0.25			0.30	0.50	0.50	
15	127	FR Water	Pad			50	34,000	809.5			2.00	0.25			0.30	0.50	0.50	
	128	FR Water	Proppant Laden Fluid	Premium White 20/40	0.50	50	17,500	416.7			2.00	0.25			0.30	0.50	0.50	
	129	30# pHaserFrac	Proppant Laden Fluid	Premium White 20/40	1.00	50	8,750	208.3	0.50	2.00	2.00	0.25	3.00	0.25	0.30			30.00
	130	30# pHaserFrac	Proppant Laden Fluid	Premium White 20/40	2.00	50	21,875	520.8	0.50	2.00	2.00	0.25	3.00	0.25	0.30			30.00
	131	30# pHaserFrac	Proppant Laden Fluid	Premium White 20/40	2.50	50	21,000	500.0	0.50	2.00	2.00	0.25	3.00	0.50	0.30			30.00
	132	30# pHaserFrac	Proppant Laden Fluid	Premium White 20/40	3.00	50	11,667	277.8	0.50	2.00	2.00	0.25	3.00	0.50	0.30			30.00
	133	30# pHaserFrac	Proppant Laden Fluid	Premium White 20/40	4.00	50	6,563	156.3	0.50	2.00	2.00	0.25	3.00	0.50	0.30			30.00
	134	FR Water	Spacer			50	1,500	35.7			2.00	0.25			0.30	0.50	0.50	
	135	FR Water	Flush			50	14,824	353.0			2.00	0.25			0.30	0.50	0.50	

**Customer**  
**Lease**  
**Formation**

**Bayswater E&P**  
**Booth G-26H**  
**Codell**

API 05-123-36082-00

**HALLIBURTON** | Production Enhancement

Treatment Interval	Stage Number	Fluid Description	Stage Description	Proppant Description	Prop Conc (ppg)	Slurry Rate (bpm)	Design Clean Volume (gal)	Design Clean Volume (bbl)	CL-23 (gpt)	BA-20 (gpt)	OilPerm FMM-1 (gpt)	CLA-Web (gpt)	ViCon NF (gpt)	CAT-3 (gpt)	BE-7 (gpt)	FR-66 (gpt)	Optikleen-WF (ppt)	WG-18 (ppt)
16	136	FR Water	Pad			50	34,000	809.5			2.00	0.25			0.30	0.50	0.50	
	137	FR Water	Proppant Laden Fluid	Premium White 20/40	0.50	50	17,500	416.7			2.00	0.25			0.30	0.50	0.50	
	138	30# pHaserFrac	Proppant Laden Fluid	Premium White 20/40	1.00	50	8,750	208.3	0.50	2.00	2.00	0.25	3.00	0.25	0.30			30.00
	139	30# pHaserFrac	Proppant Laden Fluid	Premium White 20/40	2.00	50	21,875	520.8	0.50	2.00	2.00	0.25	3.00	0.25	0.30			30.00
	140	30# pHaserFrac	Proppant Laden Fluid	Premium White 20/40	2.50	50	21,000	500.0	0.50	2.00	2.00	0.25	3.00	0.50	0.30			30.00
	141	30# pHaserFrac	Proppant Laden Fluid	Premium White 20/40	3.00	50	11,667	277.8	0.50	2.00	2.00	0.25	3.00	0.50	0.30			30.00
	142	30# pHaserFrac	Proppant Laden Fluid	Premium White 20/40	4.00	50	6,563	156.3	0.50	2.00	2.00	0.25	3.00	0.50	0.30			30.00
	143	FR Water	Spacer			50	1,500	35.7			2.00	0.25			0.30	0.50	0.50	
17	144	FR Water	Flush			50	14,824	353.0			2.00	0.25			0.30	0.50	0.50	
	145	FR Water	Pad			50	34,000	809.5			2.00	0.25			0.30	0.50	0.50	
	146	FR Water	Proppant Laden Fluid	Premium White 20/40	0.50	50	17,500	416.7			2.00	0.25			0.30	0.50	0.50	
	147	30# pHaserFrac	Proppant Laden Fluid	Premium White 20/40	1.00	50	8,750	208.3	0.50	2.00	2.00	0.25	3.00	0.25	0.30			30.00
	148	30# pHaserFrac	Proppant Laden Fluid	Premium White 20/40	2.00	50	21,875	520.8	0.50	2.00	2.00	0.25	3.00	0.25	0.30			30.00
	149	30# pHaserFrac	Proppant Laden Fluid	Premium White 20/40	2.50	50	21,000	500.0	0.50	2.00	2.00	0.25	3.00	0.50	0.30			30.00
	150	30# pHaserFrac	Proppant Laden Fluid	Premium White 20/40	3.00	50	11,667	277.8	0.50	2.00	2.00	0.25	3.00	0.50	0.30			30.00
	151	30# pHaserFrac	Proppant Laden Fluid	Premium White 20/40	4.00	50	6,563	156.3	0.50	2.00	2.00	0.25	3.00	0.50	0.30			30.00
18	152	FR Water	Spacer			50	1,500	35.7			2.00	0.25			0.30	0.50	0.50	
	153	FR Water	Flush			50	14,824	353.0			2.00	0.25			0.30	0.50	0.50	
	154	FR Water	Pad			50	34,000	809.5			2.00	0.25			0.30	0.50	0.50	
	155	FR Water	Proppant Laden Fluid	Premium White 20/40	0.50	50	17,500	416.7			2.00	0.25			0.30	0.50	0.50	
	156	30# pHaserFrac	Proppant Laden Fluid	Premium White 20/40	1.00	50	8,750	208.3	0.50	2.00	2.00	0.25	3.00	0.25	0.30			30.00
	157	30# pHaserFrac	Proppant Laden Fluid	Premium White 20/40	2.00	50	21,875	520.8	0.50	2.00	2.00	0.25	3.00	0.25	0.30			30.00
	158	30# pHaserFrac	Proppant Laden Fluid	Premium White 20/40	2.50	50	21,000	500.0	0.50	2.00	2.00	0.25	3.00	0.50	0.30			30.00
	159	30# pHaserFrac	Proppant Laden Fluid	Premium White 20/40	3.00	50	11,667	277.8	0.50	2.00	2.00	0.25	3.00	0.50	0.30			30.00
19	160	30# pHaserFrac	Proppant Laden Fluid	Premium White 20/40	4.00	50	6,563	156.3	0.50	2.00	2.00	0.25	3.00	0.50	0.30			30.00
	161	FR Water	Spacer			50	1,500	35.7			2.00	0.25			0.30	0.50	0.50	
	162	FR Water	Flush			50	14,824	353.0			2.00	0.25			0.30	0.50	0.50	
	163	FR Water	Pad			50	34,000	809.5			2.00	0.25			0.30	0.50	0.50	
	164	FR Water	Proppant Laden Fluid	Premium White 20/40	0.50	50	17,500	416.7			2.00	0.25			0.30	0.50	0.50	
	165	30# pHaserFrac	Proppant Laden Fluid	Premium White 20/40	1.00	50	8,750	208.3	0.50	2.00	2.00	0.25	3.00	0.25	0.30			30.00
	166	30# pHaserFrac	Proppant Laden Fluid	Premium White 20/40	2.00	50	21,875	520.8	0.50	2.00	2.00	0.25	3.00	0.25	0.30			30.00
	167	30# pHaserFrac	Proppant Laden Fluid	Premium White 20/40	2.50	50	21,000	500.0	0.50	2.00	2.00	0.25	3.00	0.50	0.30			30.00
20	168	30# pHaserFrac	Proppant Laden Fluid	Premium White 20/40	3.00	50	11,667	277.8	0.50	2.00	2.00	0.25	3.00	0.50	0.30			30.00
	169	30# pHaserFrac	Proppant Laden Fluid	Premium White 20/40	4.00	50	6,563	156.3	0.50	2.00	2.00	0.25	3.00	0.50	0.30			30.00
	170	FR Water	Spacer			50	1,500	35.7			2.00	0.25			0.30	0.50	0.50	
	171	FR Water	Flush			50	14,824	353.0			2.00	0.25			0.30	0.50	0.50	
	172	FR Water	Pad			50	34,000	809.5			2.00	0.25			0.30	0.50	0.50	
	173	FR Water	Proppant Laden Fluid	Premium White 20/40	0.50	50	17,500	416.7			2.00	0.25			0.30	0.50	0.50	
	174	30# pHaserFrac	Proppant Laden Fluid	Premium White 20/40	1.00	50	8,750	208.3	0.50	2.00	2.00	0.25	3.00	0.25	0.30			30.00
	175	30# pHaserFrac	Proppant Laden Fluid	Premium White 20/40	2.00	50	21,875	520.8	0.50	2.00	2.00	0.25	3.00	0.25	0.30			30.00
	176	30# pHaserFrac	Proppant Laden Fluid	Premium White 20/40	2.50	50	21,000	500.0	0.50	2.00	2.00	0.25	3.00	0.50	0.30			30.00
	177	30# pHaserFrac	Proppant Laden Fluid	Premium White 20/40	3.00	50	11,667	277.8	0.50	2.00	2.00	0.25	3.00	0.50	0.30			30.00
	178	30# pHaserFrac	Proppant Laden Fluid	Premium White 20/40	4.00	50	6,563	156.3	0.50	2.00	2.00	0.25	3.00	0.50	0.30			30.00
	179	FR Water	Spacer			50	1,500	35.7			2.00	0.25			0.30	0.50	0.50	
	180	FR Water	Flush			50	14,824	353.0			2.00	0.25			0.30	0.50	0.50	

**Customer**  
**Lease**  
**Formation**

**Bayswater E&P**  
**Booth G-26H**  
**Codell**

API 05-123-36082-00

**HALLIBURTON** | Production Enhancement

Treatment Interval	Stage Number	Fluid Description	Stage Description	Proppant Description	Prop Conc (ppg)	Slurry Rate (bpm)	Design Clean Volume (gal)	Design Clean Volume (bbl)	CL-23 (gpt)	BA-20 (gpt)	OilPerm FMM-1 (gpt)	CLA-Web (gpt)	ViCon NF (gpt)	CAT-3 (gpt)	BE-7 (gpt)	FR-66 (gpt)	Optikleen-WF (ppt)	WG-18 (ppt)
21	181	FR Water	Pad			50	34,000	809.5			2.00	0.25			0.30	0.50	0.50	
	182	FR Water	Proppant Laden Fluid	Premium White 20/40	0.50	50	17,500	416.7			2.00	0.25			0.30	0.50	0.50	
	183	30# pHaserFrac	Proppant Laden Fluid	Premium White 20/40	1.00	50	8,750	208.3	0.50	2.00	2.00	0.25	3.00	0.25	0.30			30.00
	184	30# pHaserFrac	Proppant Laden Fluid	Premium White 20/40	2.00	50	21,875	520.8	0.50	2.00	2.00	0.25	3.00	0.25	0.30			30.00
	185	30# pHaserFrac	Proppant Laden Fluid	Premium White 20/40	2.50	50	21,000	500.0	0.50	2.00	2.00	0.25	3.00	0.50	0.30			30.00
	186	30# pHaserFrac	Proppant Laden Fluid	Premium White 20/40	3.00	50	11,667	277.8	0.50	2.00	2.00	0.25	3.00	0.50	0.30			30.00
	187	30# pHaserFrac	Proppant Laden Fluid	Premium White 20/40	4.00	50	6,563	156.3	0.50	2.00	2.00	0.25	3.00	0.50	0.30			30.00
	188	FR Water	Spacer			50	1,500	35.7			2.00	0.25			0.30	0.50	0.50	
22	189	FR Water	Flush			50	14,824	353.0			2.00	0.25			0.30	0.50	0.50	
	190	FR Water	Pad			50	34,000	809.5			2.00	0.25			0.30	0.50	0.50	
	191	FR Water	Proppant Laden Fluid	Premium White 20/40	0.50	50	17,500	416.7			2.00	0.25			0.30	0.50	0.50	
	192	30# pHaserFrac	Proppant Laden Fluid	Premium White 20/40	1.00	50	8,750	208.3	0.50	2.00	2.00	0.25	3.00	0.25	0.30			30.00
	193	30# pHaserFrac	Proppant Laden Fluid	Premium White 20/40	2.00	50	21,875	520.8	0.50	2.00	2.00	0.25	3.00	0.25	0.30			30.00
	194	30# pHaserFrac	Proppant Laden Fluid	Premium White 20/40	2.50	50	21,000	500.0	0.50	2.00	2.00	0.25	3.00	0.50	0.30			30.00
	195	30# pHaserFrac	Proppant Laden Fluid	Premium White 20/40	3.00	50	11,667	277.8	0.50	2.00	2.00	0.25	3.00	0.50	0.30			30.00
	196	30# pHaserFrac	Proppant Laden Fluid	Premium White 20/40	4.00	50	6,563	156.3	0.50	2.00	2.00	0.25	3.00	0.50	0.30			30.00
23	197	FR Water	Spacer			50	1,500	35.7			2.00	0.25			0.30	0.50	0.50	
	198	FR Water	Flush			50	14,824	353.0			2.00	0.25			0.30	0.50	0.50	
	199	FR Water	Pad			50	34,000	809.5			2.00	0.25			0.30	0.50	0.50	
	200	FR Water	Proppant Laden Fluid	Premium White 20/40	0.50	50	17,500	416.7			2.00	0.25			0.30	0.50	0.50	
	201	30# pHaserFrac	Proppant Laden Fluid	Premium White 20/40	1.00	50	8,750	208.3	0.50	2.00	2.00	0.25	3.00	0.25	0.30			30.00
	202	30# pHaserFrac	Proppant Laden Fluid	Premium White 20/40	2.00	50	21,875	520.8	0.50	2.00	2.00	0.25	3.00	0.25	0.30			30.00
	203	30# pHaserFrac	Proppant Laden Fluid	Premium White 20/40	2.50	50	21,000	500.0	0.50	2.00	2.00	0.25	3.00	0.50	0.30			30.00
	204	30# pHaserFrac	Proppant Laden Fluid	Premium White 20/40	3.00	50	11,667	277.8	0.50	2.00	2.00	0.25	3.00	0.50	0.30			30.00
24	205	30# pHaserFrac	Proppant Laden Fluid	Premium White 20/40	4.00	50	6,563	156.3	0.50	2.00	2.00	0.25	3.00	0.50	0.30			30.00
	206	FR Water	Spacer			50	1,500	35.7			2.00	0.25			0.30	0.50	0.50	
	207	FR Water	Flush			50	14,824	353.0			2.00	0.25			0.30	0.50	0.50	
	208	FR Water	Pad			50	34,000	809.5			2.00	0.25			0.30	0.50	0.50	
	209	FR Water	Proppant Laden Fluid	Premium White 20/40	0.50	50	17,500	416.7			2.00	0.25			0.30	0.50	0.50	
	210	30# pHaserFrac	Proppant Laden Fluid	Premium White 20/40	1.00	50	8,750	208.3	0.50	2.00	2.00	0.25	3.00	0.25	0.30			30.00
	211	30# pHaserFrac	Proppant Laden Fluid	Premium White 20/40	2.00	50	21,875	520.8	0.50	2.00	2.00	0.25	3.00	0.25	0.30			30.00
	212	30# pHaserFrac	Proppant Laden Fluid	Premium White 20/40	2.50	50	21,000	500.0	0.50	2.00	2.00	0.25	3.00	0.50	0.30			30.00
25	213	30# pHaserFrac	Proppant Laden Fluid	Premium White 20/40	3.00	50	11,667	277.8	0.50	2.00	2.00	0.25	3.00	0.50	0.30			30.00
	214	30# pHaserFrac	Proppant Laden Fluid	Premium White 20/40	4.00	50	6,563	156.3	0.50	2.00	2.00	0.25	3.00	0.50	0.30			30.00
	215	FR Water	Spacer			50	1,500	35.7			2.00	0.25			0.30	0.50	0.50	
	216	FR Water	Flush			50	14,824	353.0			2.00	0.25			0.30	0.50	0.50	
	217	FR Water	Pad			50	34,000	809.5			2.00	0.25			0.30	0.50	0.50	
	218	FR Water	Proppant Laden Fluid	Premium White 20/40	0.50	50	17,500	416.7			2.00	0.25			0.30	0.50	0.50	
	219	30# pHaserFrac	Proppant Laden Fluid	Premium White 20/40	1.00	50	8,750	208.3	0.50	2.00	2.00	0.25	3.00	0.25	0.30			30.00
	220	30# pHaserFrac	Proppant Laden Fluid	Premium White 20/40	2.00	50	21,875	520.8	0.50	2.00	2.00	0.25	3.00	0.25	0.30			30.00
25	221	30# pHaserFrac	Proppant Laden Fluid	Premium White 20/40	2.50	50	21,000	500.0	0.50	2.00	2.00	0.25	3.00	0.50	0.30			30.00
	222	30# pHaserFrac	Proppant Laden Fluid	Premium White 20/40	3.00	50	11,667	277.8	0.50	2.00	2.00	0.25	3.00	0.50	0.30			30.00
	223	30# pHaserFrac	Proppant Laden Fluid	Premium White 20/40	4.00	50	6,563	156.3	0.50	2.00	2.00	0.25	3.00	0.50	0.30			30.00
	224	FR Water	Spacer			50	1,500	35.7			2.00	0.25			0.30	0.50	0.50	
	225	FR Water	Flush			50	14,824	353.0			2.00	0.25			0.30	0.50	0.50	

**HALLIBURTON** | Production Enhancement

**Bayswater E&P**  
**Booth G-26H**  
**Codell**

**HALLIBURTON** | Production Enhancement

[illegible]

**Customer** Bayswater E&P  
**Formation** Codell  
**Lease** Booth G-26H  
**API** 05-123-36082-00  
**Date** Saturday, January 00, 1900

**HALLIBURTON** | Production  
 Enhancement

			Perf Depth (ft)		
Zone #	Displacement to Perf (gal)	(BBLs)	Top	Btm	Zone #
30	12,450	296.4	7,737	7,740	30
29	12,552	298.9	7,893	7,896	29
28	12,761	303.8	8,050	8,053	28
27	12,859	306.2	8,206	8,209	27
26	12,957	308.5	8,363	8,366	26
25	13,055	310.8	8,519	8,522	25
24	13,153	313.2	8,676	8,679	24
23	13,252	315.5	8,833	8,836	23
22	13,350	317.8	8,989	8,992	22
21	13,448	320.2	9,146	9,149	21
20	13,543	322.4	9,297	9,300	20
19	13,640	324.8	9,453	9,456	19
18	13,739	327.1	9,610	9,613	18
17	13,837	329.4	9,766	9,769	17
16	13,935	331.8	9,923	9,926	16
15	14,034	334.1	10,080	10,083	15
14	14,126	336.3	10,228	10,231	14
13	14,225	338.7	10,385	10,388	13
12	14,323	341.0	10,541	10,544	12
11	14,420	343.3	10,697	10,700	11
10	14,518	345.7	10,853	10,856	10
9	14,614	348.0	11,006	11,009	9
8	14,712	350.3	11,163	11,166	8
7	14,810	352.6	11,319	11,322	7
6	14,909	355.0	11,476	11,479	6
5	15,006	357.3	11,632	11,635	5
4	15,105	359.6	11,789	11,792	4
3	15,202	362.0	11,944	11,947	3
2	15,300	364.3	12,101	12,104	2
1	15,398	366.6	12,257	12,260	1

### Job Information

<b>Request/Fluid ID</b>	2007058/1	<b>Rig Name</b>		<b>Date</b>	03/JUL/2014
<b>Submitted By</b>	Daniel Davis	<b>Job Type</b>	Fracturing/Stimulation	<b>Well</b>	Booth H-26H/J-26H
<b>Customer</b>	Bayswater Exploration & Production	<b>Location</b>	Weld	<b>Fluid System</b>	pHaserFrac

### Well Information

<b>Formation</b>	Codell	<b>Depth MD</b>		<b>BHST</b>	230 degF
<b>Pressure</b>		<b>Depth TVD</b>		<b>Cool Down Temperature</b>	

### Base Fluid Properties

<b>Viscosity</b>	30# = 26.6cP 28# = 23.0cP	<b>Polymer Loading</b>	30 ppt	<b>Mix Fluid Amount</b>	1000 ml
<b>Mix Fluid</b>	Fresh Water				

### Viscometer Configuration

<b>Viscometer</b>	Fann 35	<b>Shear Rate</b>	511(sec-1)	<b>RPM</b>	300
<b>Bob/Spindle Type</b>	R1B1				

### Gel/Hydration Test 30#

Time (min)	Viscosity (cP)	Sample temp (°F)	pH
3	26.6	71.8	8.40
6	26.6	72.5	
9	26.6	72.8	

### Gel/Hydration Test 28#

Time (min)	Viscosity (cP)	Sample temp (°F)	pH
3	23.0	70.5	8.35
6	23.0	70.1	
9	23.0	70.4	

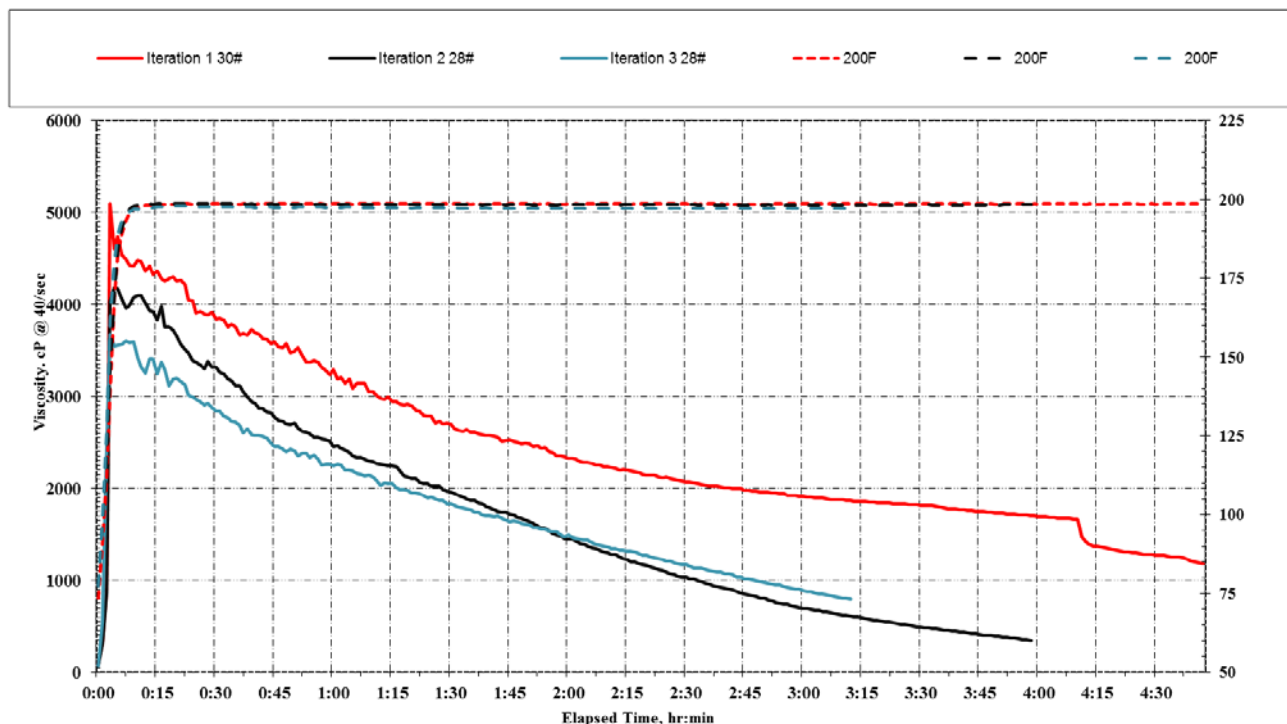
### Fluid Information - Design

iFacts No.	Chemical	Conc Unit	Iteration Number			
			Base Fluid	1	2	3
~	WG-18	ppt	30/28	30	28	28
1001277	OilPerm FMM-1	gpt	2.00	2.00	2.00	2.00
1001266	Cla Web	gpt	0.30	0.30	0.30	0.30
~	BE-7	gpt	0.25	0.25	0.25	0.25
1001271	BA-20	gpt	~	0.60	1.00	2.00
1001272	Vicon NF Breaker	gpt	~	3.00	3.00	3.00
1001273	CAT-3	gpt	~	0.25	0.25	0.50
1001264	CL-23	gpt	~	0.50	0.50	0.50

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## Viscometer Configuration

Viscometer	5550	Shear Rate	40(sec-1)	RPM	106
Bob/Spindle Type	R1B2	Break Definition	500 cp		



## Break Test (Pressurized)

	Iteration Number		
	1	2	3
Test Temp (°F)	200	200	200
Base Viscosity (cP)	26.6	23	23
Base Temp (°F)	72.8	70.4	70.4
Base Gel pH	9.25	8.73	8.73
Buffered Gel pH	5.00	5.00	5.03
Crosslink pH	4.99	4.97	4.95
Final pH	5.20	5.01	5.08
Break Time (minutes)	~	210	~

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## Water Analysis

Tank Number/Source

Customer: Baywater

Well: Booth H-26H/J-26H

Date: 7/8/2014

Formation: Codell

Analyzed by: DC

**HALLIBURTON**

### LABORATORY WATER ANALYSIS

TANK:	Job	
	1	Averages
Temperature (°F)	71.4	71.40
pH	8.40	8.40
Specific Gravity	1.000	1.000
Chlorides (mg/L):	2	2
Potassium (mg/L):	0	0
Sodium (mg/L):	53.7	54
Sulfate (mg/L):	80	80
Iron (mg/L):	0.52	0.52
Carbonates (mg/L)	20.0	20
Bicarbonates (mg/L)	81.3	81
Calcium (Ca) (mg/L):	6.0	6
Magnesium (Mg) (mg/L):	9.8	10
Total Dissolved Solids (mg/L)	323.4	323

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## Halliburton Energy Services

### On-Site Pre-Job Quality Control Testing

#### The following tests were performed:

- ☒ Pre Job Water Analysis (Temp, pH, S.G.)
- ☒ Sand Sieves
- ☒ Fann 35 Break Test

**Customer:** Bayswater  
**Lease:** Booth G-26H  
**Date:** July 7, 2014  
**Formation:** Codell  
**Ticket #:** 901484891  
**Fluid System:** pHaserFrac

Tests Performed By: Christopher Flora  
QC Operator

Tests Verified & Approved By: Bryan Carter  
Associate Technical Professional

**Customer:** Bayswater  
**Lease:** Booth G-26H  
**Date:** 7/7/2014  
**Formation:** Codell  
**Ticket #:** 901484891  
**Fluid System:** pHaserFrac



TANKS	TEMP	pH	S.G.	TEMP Variance
1 - 5	72.7	7.92	1.000	0.9
6 - 10	71.0	7.95	1.000	-0.8
Average	71.9	7.94	1.000	0.0

**Customer:** Bayswater  
**Lease:** Booth G-26H  
**Date:** 7/6/2014  
**Formation:** Codell  
**Ticket #:**  
**Fluid System:** pHaserFrac



### Real Time Sand Sieves

20/40

Unit # 1

MT Mover										
Initial Weight (grams):	COMP 1		COMP 2		COMP 3		COMP 4		COMP 5	
Sand Type:	Wt	%	Wt	%	Wt	%	Wt	%	Wt	%
Sieve # 16	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sieve # 20	4.1	4.1	4.9	4.9	4.5	4.5	4.1	4.1	4.0	4.0
Sieve # 30	35.5	35.5	37.0	37.0	39.0	39.0	38.7	38.7	40.2	40.2
Sieve # 35	35.8	35.8	33.4	33.4	33.0	33.0	32.5	32.5	30.5	30.5
Sieve # 40	21.5	21.5	22.4	22.4	21.0	21.0	21.5	21.5	22.5	22.5
Sieve # 50	3.1	3.1	2.2	2.2	2.5	2.5	3.0	3.0	2.7	2.7
Pan	0.0	0.0	0.1	0.1	0.0	0.0	0.2	0.2	0.1	0.1
<b>Total</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>
<b>Retained</b>	<b>92.8%</b>		<b>92.8%</b>		<b>93.0%</b>		<b>92.7%</b>		<b>93.2%</b>	

### Real Time Sand Sieves

30/50

Unit # 2

MT Mover										
Initial Weight (grams):	COMP 1		COMP 2		COMP 3		COMP 4		COMP 5	
Sand Type:	Wt	%	Wt	%	Wt	%	Wt	%	Wt	%
Sieve # 20	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sieve # 30	2.5	2.5	2.7	2.7	3.1	3.1	2.5	2.5	3.5	3.5
Sieve # 40	41.5	41.5	35.7	35.7	38.5	38.5	39.6	39.6	40.1	40.1
Sieve # 45	30.5	30.5	33.6	33.6	34.5	34.5	35.5	35.5	33.7	33.7
Sieve # 50	21.6	21.6	25.3	25.3	22.2	22.2	19.9	19.9	20.6	20.6
Sieve # 70	3.9	3.9	2.4	2.4	1.6	1.6	2.5	2.5	1.9	1.9
Pan	0.0	0.0	0.3	0.3	0.1	0.1	0.0	0.0	0.2	0.2
<b>Total</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>
<b>Retained</b>	<b>93.6%</b>		<b>94.6%</b>		<b>95.2%</b>		<b>95.0%</b>		<b>94.4%</b>	

Customer: Bayswater  
Lease: Booth G-26H  
Formation Code: I  
Date: 7/6/2014

Test No: 1  
QC Operator: Christopher Flora  
Ticket No:  
Engineer:

## Fann 35 Analysis Data Sheet QC Field Test

Location Water

8.14 pH

Hydrated

7.96 pH

Buffered to

5.01 pH

Final

4.96 pH

Crosslink Time

Temperature	sec.
190	53

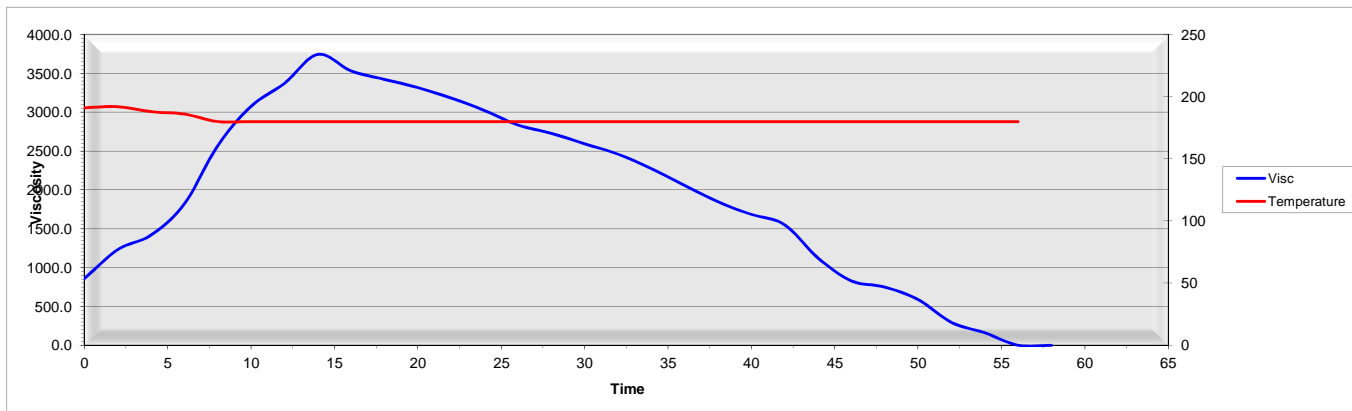
Hydration Test

Time	Visc.	Temp.
3	25	72.6 °f
6	27	72.3 °f
9	27	72.4 °f

Test Increments:		2	minutes
Time (Min)	Temp (°F)	Fann35 (Dial)	Apparent Visc
0	191	32	855.8
2	192	46	1230.3
4	188	53	1417.5
6	186	68	1818.7
8	180	96	2567.5
10	180	115	3075.7
12	180	126	3369.9
14	180	140	3744.3
16	180	132	3530.3
18	180	128	3423.4
20	180	124	3316.4
22	180	119	3182.7
24	180	113	3022.2
26	180	106	2835.0
28	180	102	2728.0
30	180	97	2594.3
32	180	92	2460.5
34	180	85	2273.3
36	180	77	2059.4
38	180	69	1845.4
40	180	63	1684.9
42	180	58	1551.2
44	180	42	1123.3
46	180	31	829.1
48	180	28	748.9
50	180	22	588.4
52	180	11	294.2
54	180	6	160.5
56	180	0	0.0
58			
60			
60% of Initial Reading			513.504

Fluid	pHaserFrac
-------	------------

Dry Gel			
Submitted Location Water		1000	mL
setpoint:	30.00	WG-18	3.60 grams
Viscosity		27	cp
Temp		72	°f
Components are mixed in 1000 mLs of Hydrated Gel			
Chemicals			
Miscellaneous			
setpoint:	0.30	BE-7	0.30 mL
setpoint:			ml
Surfactants			
setpoint:	2.00	OilPerm FMM-1	2.00 mL
setpoint:			
Clay Control / Stabilizers			
setpoint:	0.25	Cla-Web	0.25 mL
setpoint:			
Buffers			
setpoint:	2.00	BA-20	2.00 mL
setpoint:			
Crosslinkers			
Crosslinker Dilution:		1	To 1
setpoint:			
setpoint:	0.30	CL-23	0.30 mL
setpoint:			
Breakers			
Hydrated Gel Used for Test:		200	mL
setpoint:	3.00	VICON NF	0.600 mL
setpoint:	0.50	CAT-3	0.100 mL
setpoint:			
setpoint:			
setpoint:			



**Customer**  
**Lease**  
**Formation**

**Bayswater E&P**  
**Booth G-26H**  
**Codell**

7/13/2014 API 05-123-36082-00

**HALLIBURTON** | Production Enhancement

Treatment Interval	Stage Number	Fluid Description	Stage Description	Proppant Description	Prop Conc (ppg)	Slurry Rate (bpm)	Design Clean Volume (gal)	Design Clean Volume (bbl)	Actual Clean Volume (gal)	Actual Clean Volume (bbl)	Design Prop Total (lbs)	Actual Prop Total (lbs)	CL-23 (gpt)	BA-20 (gpt)	OilPerm FMM-1 (gpt)	CLA-Web (gpt)	ViCon NF (gpt)	CAT-3 (gpt)	BE-7 (gpt)	FR-66 (gpt)	Optikleen-WF (gpt)	WG-18 (gpt)
1	1	FR Water	Pad			50	34,000	809.5	23,661	563.4					2.00	0.25			0.30	0.50	0.50	
		30# pHaserFrac	pad						14,700	350.0			0.50	1.00	2.00	0.25	3.00	0.25	0.30			30.00
		30# pHaserFrac	Proppant Laden Fluid	Premium White 20/40	0.25				2,960	70.5		658	0.50	1.00	2.00	0.25	3.00	0.25	0.30			30.00
		30# pHaserFrac							13,641	324.8			0.50	1.00	2.00	0.25	3.00	0.25	0.30			30.00
	2	30# pHaserFrac	Proppant Laden Fluid	Premium White 20/40	0.50	50	17,500	416.7	39,002	928.6	8,750	19,501	0.50	1.00	2.00	0.25	3.00	0.25	0.30			30.00
	3	30# pHaserFrac	Proppant Laden Fluid	Premium White 20/40	1.00	50	8,750	208.3	22,214	528.9	8,750	20,034	0.50	1.00	2.00	0.25	3.00	0.25	0.30			30.00
	4	30# pHaserFrac	Proppant Laden Fluid	Premium White 20/40	1.50	50	21,875	520.8	34,984	833.0	32,813	44,807	0.50	1.00	2.00	0.25	3.00	0.25	0.30			30.00
	5	30# pHaserFrac	Proppant Laden Fluid	Premium White 20/40	2.50	50	21,000	500.0			52,500		0.50	1.00	2.00	0.25	3.00	0.25	0.30			30.00
	6	30# pHaserFrac	Proppant Laden Fluid	Premium White 20/40	3.00	50	11,667	277.8			35,001		0.50	1.00	2.00	0.25	3.00	0.25	0.30			30.00
2	7	30# pHaserFrac	Proppant Laden Fluid	Premium White 20/40	4.00	50	6,563	156.3			26,252		0.50	1.00	2.00	0.25	3.00	0.25	0.30			30.00
	8	FR Water	Spacer			50	2,100	50.0	2,035	48.5					2.00	0.25			0.30	0.50	0.50	
	9	FR Water	Flush			50	14,824	353.0							2.00	0.25			0.30	0.50	0.50	
	10	30# pHaserFrac	Pad			50	34,000	809.5	34,010	809.8			0.50	1.00	2.00	0.25	3.00	0.25	0.30			30.00
	11	30# pHaserFrac	Proppant Laden Fluid	Premium White 20/40	0.25	50	17,500	416.7	17,321	412.4	4,375	4,221	0.50	1.00	2.00	0.25	3.00	0.25	0.30			30.00
		30# pHaserFrac	Proppant Laden Fluid	Premium White 20/40	0.50				11,727	279.2		5,739	0.50	1.00	2.00	0.25	3.00	0.25	0.30			30.00
	12	30# pHaserFrac	Proppant Laden Fluid	Premium White 20/40	1.00	50	8,750	208.3	8,768	208.8	8,750	6,704	0.50	1.00	2.00	0.25	3.00	0.25	0.30			30.00
	13	30# pHaserFrac	Proppant Laden Fluid	Premium White 20/40	2.00	50	21,875	520.8	21,890	521.2	43,750	39,632	0.50	1.00	2.00	0.25	3.00	0.25	0.30			30.00
	14	30# pHaserFrac	Proppant Laden Fluid	Premium White 20/40	2.50	50	21,000	500.0	21,010	500.2	52,500	48,681	0.50	1.00	2.00	0.25	3.00	0.25	0.30			30.00
3	15	30# pHaserFrac	Proppant Laden Fluid	Premium White 20/40	3.00	50	11,667	277.8	11,647	277.3	35,001	30,624	0.50	1.00	2.00	0.25	3.00	0.25	0.30			30.00
	16	30# pHaserFrac	Proppant Laden Fluid	Premium White 20/40	4.00	50	6,563	156.3	8,023	191.0	26,252	20,165	0.50	1.00	2.00	0.25	3.00	0.25	0.30			30.00
	17	FR Water	Spacer			50	1,500	35.7							2.00	0.25			0.30	0.50	0.50	
	18	FR Water	Flush			50	14,824	353.0							2.00	0.25			0.30	0.50	0.50	
	19	FR Water	Pad			50	34,000	809.5	19,670	468.3					2.00	0.25			0.30	0.50	0.50	
		30# pHaserFrac	Pad						14,521	345.7			0.50	1.00	2.00	0.25	3.00	0.25	0.30			30.00
	20	30# pHaserFrac	Proppant Laden Fluid	Premium White 20/40	0.50	50	17,500	416.7	17,495	416.5	8,750	6,079	0.50	1.00	2.00	0.25	3.00	0.25	0.30			30.00
	21	30# pHaserFrac	Proppant Laden Fluid	Premium White 20/40	1.00	50	8,750	208.3	8,755	208.5	8,750	6,591	0.50	1.00	2.00	0.25	3.00	0.25	0.30			30.00
	22	30# pHaserFrac	Proppant Laden Fluid	Premium White 20/40	2.00	50	21,875	520.8	21,835	519.9	43,750	40,160	0.50	1.00	2.00	0.25	3.00	0.25	0.30			30.00
4	23	30# pHaserFrac	Proppant Laden Fluid	Premium White 20/40	2.50	50	21,000	500.0	20,981	499.5	52,500	48,420	0.50	1.00	2.00	0.25	3.00	0.25	0.30			30.00
	24	30# pHaserFrac	Proppant Laden Fluid	Premium White 20/40	3.00	50	11,667	277.8	11,663	277.7	35,001	30,023	0.50	1.00	2.00	0.25	3.00	0.25	0.30			30.00
	25	30# pHaserFrac	Proppant Laden Fluid	Premium White 20/40	4.00	50	6,563	156.3	8,180	194.8	26,252	23,057	0.50	1.00	2.00	0.25	3.00	0.25	0.30			30.00
	26	FR Water	Spacer			50	1,500	35.7							2.00	0.25			0.30	0.50	0.50	
	27	FR Water	Flush			50	14,824	353.0							2.00	0.25			0.30	0.50	0.50	
	28	FR Water	Pad			50	34,000	809.5	34,001	809.5					2.00	0.25			0.30	0.50	0.50	
	29	30# pHaserFrac	Proppant Laden Fluid	Premium White 20/40	0.50	50	17,500	416.7	20,284	483.0	8,750	4,385	0.50	1.00	2.00	0.25	3.00	0.25	0.30			30.00
		FR Water	Flush						10,381	247.2					2.00	0.25			0.30	0.50	0.50	
		30# pHaserFrac	Pad						17,948	427.3		4,483	0.50	1.00	2.00	0.25	3.00	0.25	0.30			30.00
5	30	30# pHaserFrac	Proppant Laden Fluid	Premium White 20/40	1.00	50	8,750	208.3	8,754	208.4	8,750	6,205	0.50	1.00	2.00	0.25	3.00	0.25	0.30			30.00
	31	30# pHaserFrac	Proppant Laden Fluid	Premium White 20/40	2.00	50	21,875	520.8	21,853	520.3	43,750	39,535	0.50	1.00	2.00	0.25	3.00	0.25	0.30			30.00
	32	30# pHaserFrac	Proppant Laden Fluid	Premium White 20/40	2.50	50	21,000	500.0	21,001	500.0	52,500	49,557	0.50	1.00	2.00	0.25	3.00	0.25	0.30			30.00
	33	30# pHaserFrac	Proppant Laden Fluid	Premium White 20/40	3.00	50	11,667	277.8	11,663	277.7	35,001	33,143	0.50	1.00	2.00	0.25	3.00	0.25	0.30			30.00
	34	30# pHaserFrac	Proppant Laden Fluid	Premium White 20/40	4.00	50	6,563	156.3	7,164	170.6	26,252	22,957	0.50	1.00	2.00	0.25	3.00	0.25	0.30			30.00
	35	FR Water	Spacer			50	1,500	35.7							2.00	0.25			0.30	0.50	0.50	
	36	FR Water	Flush			50	14,824	353.0							2.00	0.25			0.30	0.50	0.50	
	37	FR Water	Pad			50	34,000	809.5	33,998	809.5					2.00	0.25			0.30	0.50	0.50	
	38	30# pHaserFrac	Proppant Laden Fluid	Premium White 20/40	0.50	50	17,500	416.7	17,494	416.5	8,750	6,264	0.50	1.00	2.00	0.25	3.00	0.25	0.30			30.00
6	39	30# pHaserFrac	Proppant Laden Fluid	Premium White 20/40	1.00	50	8,750	208.3	8,764	208.7	8,750	6,848	0.50	1.00	2.00	0.25	3.00	0.25	0.30			30.00
	40	30# pHaserFrac	Proppant Laden Fluid	Premium White 20/40	2.00	50	21,875	520.8	21,877	520.9	43,750	39,800	0.50	1.00	2.00	0.25	3.00	0.25	0.30			30.00
	41	30# pHaserFrac	Proppant Laden Fluid	Premium White 20/40	2.50	50	21,000	500.0	20,991	499.8	52,500	49,800	0.50	1.00	2.00	0.25	3.00	0.25	0.30			30.00
	42	30# pHaserFrac	Proppant Laden Fluid	Premium White 20/40	3.00	50	11,667	277.8	11,675	278.0	35,001	32,626	0.50	1.00	2.00	0.25	3.00	0.25	0.30			30.00
	43	30# pHaserFrac	Proppant Laden Fluid	Premium White 20/40	4.00	50	6,563	156.3	7,611	181.2	26,252	22,924	0.50	1.00	2.00	0.25	3.00	0.25	0.30			30.00
	44	FR Water	Spacer			50	1,500	35.7							2.00	0.25			0.30	0.50	0.50	
	45	FR Water	Flush			50	14,824	353.0							2.00	0.25			0.30	0.50	0.50	
	46	FR Water	Pad			50	34,000	809.5	33,979	809.0					2.00	0.25			0.30	0.50	0.50	
	47	30# pHaserFrac	Proppant Laden Fluid	Premium White 20/40	0.50	50	17,500	416.7	17,490	416.4	8,750	6,506	0.50	1.00	2.00	0.25	3.00	0.25	0.30			30.00
7	48	30# pHaserFrac	Proppant Laden Fluid	Premium White 20/40	1.00	50	8,750	208.3	8,728	207.8	8,750	7,988	0.50	1.00	2.00	0.25	3.00	0.25	0.30			30.00
	49	30# pHaserFrac	Proppant Laden Fluid	Premium White 20/40	2.00	50	21,875	520.8	21,872	520.8	43,750	40,978	0.50	1.00	2.00	0.25	3.00	0.25	0.30			30.00
	50	30# pHaserFrac	Proppant Laden Fluid	Premium White 20/40	2.50	50	21,000	500.0	20,978	499.5	52,500	50,368	0.50	1.00	2.00	0.25	3.00	0.25	0.30			30.00
	51	30# pHaserFrac	Proppant Laden Fluid	Premium White 20/40	3.00	50	11,667	277.8	11,667	277.8	35,001	31,556	0.50	1.00	2.00	0.25	3.00	0.25	0.30			30.00
	52	30# pHaserFrac	Proppant Laden Fluid	Premium White 20/40	4.00	50	6,563	156.3	8,038	191.4	26,252	22,637	0.50	1.00	2.00	0.25	3.00	0.25	0.30			30.00
	53	FR Water	Spacer			50	1,500	35.7							2.00	0.25			0.30	0.50	0.50	
	54	FR Water	Flush			50	14,824	353.0	14,939	355.7					2.00	0.25			0.30	0.50	0.50	

Treatment Interval	Stage Number	Fluid Description	Stage Description	Proppant Description	Prop Conc (ppg)	Slurry Rate (bpm)	Design Clean Volume (gal)	Design Clean Volume (bbbl)	Actual Clean Volume (gal)	Actual Clean Volume (bbbl)	Design Prop Total (lbs)	Actual Prop Total (lbs)	CL-23 (gpt)	BA-20 (gpt)	OilPerm FMM-1 (gpt)	CLA-Web (gpt)	ViCon NF (gpt)	CAT-3 (gpt)	BE-7 (gpt)	FR-66 (gpt)	Optikleen-WF (ppt)	WG-18 (ppt)
7	55	FR Water	Pad			50	34,000	809.5	15,225	362.5					2.00	0.25			0.30	0.50	0.50	
		30# pHaserFrac	Pad						18,647	444.0			0.50	1.00	2.00	0.25	3.00	0.25	0.30			30.00
	56	30# pHaserFrac	Proppant Laden Fluid	Premium White 20/40	0.50	50	17,500	416.7	17,495	416.5	8,750	7,515	0.50	1.00	2.00	0.25	3.00	0.25	0.30			30.00
	57	30# pHaserFrac	Proppant Laden Fluid	Premium White 20/40	1.00	50	8,750	208.3	8,811	209.8	8,750	8,061	0.50	1.00	2.00	0.25	3.00	0.25	0.30			30.00
	58	30# pHaserFrac	Proppant Laden Fluid	Premium White 20/40	2.00	50	21,875	520.8	21,868	520.7	43,750	40,990	0.50	1.00	2.00	0.25	3.00	0.25	0.30			30.00
	59	30# pHaserFrac	Proppant Laden Fluid	Premium White 20/40	2.50	50	21,000	500.0	20,991	499.8	52,500	49,500	0.50	1.00	2.00	0.25	3.00	0.25	0.30			30.00
	60	30# pHaserFrac	Proppant Laden Fluid	Premium White 20/40	3.00	50	11,667	277.8	11,645	277.3	35,001	31,094	0.50	1.00	2.00	0.25	3.00	0.25	0.30			30.00
	61	30# pHaserFrac	Proppant Laden Fluid	Premium White 20/40	4.00	50	6,563	156.3	8,289	197.4	26,252	22,365	0.50	1.00	2.00	0.25	3.00	0.25	0.30			30.00
	62	30# pHaserFrac	Spacer			50	1,500	35.7	1,865	44.4			0.50	1.00	2.00	0.25	3.00	0.25	0.30			30.00
	63	FR Water	Flush			50	14,824	353.0							2.00	0.25			0.30	0.50	0.50	
8	64	FR Water	Pad			50	34,000	809.5	26,352	627.4					2.00	0.25			0.30	0.50	0.50	
		30# pHaserFrac	Pad						7,635	181.8			0.50	1.00	2.00	0.25	3.00	0.25	0.30			30.00
	65	30# pHaserFrac	Proppant Laden Fluid	Premium White 20/40	0.50	50	17,500	416.7	17,488	416.4	8,750	7,584	0.50	1.00	2.00	0.25	3.00	0.25	0.30			30.00
	66	30# pHaserFrac	Proppant Laden Fluid	Premium White 20/40	1.00	50	8,750	208.3	8,756	208.5	8,750	7,045	0.50	1.00	2.00	0.25	3.00	0.25	0.30			30.00
	67	30# pHaserFrac	Proppant Laden Fluid	Premium White 20/40	2.00	50	21,875	520.8	21,856	520.4	43,750	41,028	0.50	1.00	2.00	0.25	3.00	0.25	0.30			30.00
	68	30# pHaserFrac	Proppant Laden Fluid	Premium White 20/40	2.50	50	21,000	500.0	21,001	500.0	52,500	50,058	0.50	1.00	2.00	0.25	3.00	0.25	0.30			30.00
	69	30# pHaserFrac	Proppant Laden Fluid	Premium White 20/40	3.00	50	11,667	277.8	11,727	279.2	35,001	30,273	0.50	1.00	2.00	0.25	3.00	0.25	0.30			30.00
	70	30# pHaserFrac	Proppant Laden Fluid	Premium White 20/40	4.00	50	6,563	156.3	7,799	185.7	26,252	20,308	0.50	1.00	2.00	0.25	3.00	0.25	0.30			30.00
	71	FR Water	Spacer			50	1,500	35.7	2,053	48.9					2.00	0.25			0.30	0.50	0.50	
	72	FR Water	Flush			50	14,824	353.0	12,273	292.2					2.00	0.25			0.30	0.50	0.50	
9	73	FR Water	Pad			50	34,000	809.5	21,737	517.5					2.00	0.25			0.30	0.50	0.50	
	74	FR Water	Proppant Laden Fluid	Premium White 20/40	0.50	50	17,500	416.7	17,518	417.1	8,750	7,552			2.00	0.25			0.30	0.50	0.50	
	75	30# pHaserFrac	Proppant Laden Fluid	Premium White 20/40	1.00	50	8,750	208.3	8,751	208.4	8,750	7,880	0.50	1.00	2.00	0.25	3.00	0.25	0.30			30.00
	76	30# pHaserFrac	Proppant Laden Fluid	Premium White 20/40	2.00	50	21,875	520.8	21,894	521.3	43,750	40,551	0.50	1.00	2.00	0.25	3.00	0.25	0.30			30.00
	77	30# pHaserFrac	Proppant Laden Fluid	Premium White 20/40	2.50	50	21,000	500.0	21,000	500.0	52,500	50,719	0.50	1.00	2.00	0.25	3.00	0.25	0.30			30.00
	78	30# pHaserFrac	Proppant Laden Fluid	Premium White 20/40	3.00	50	11,667	277.8	11,669	277.8	35,001	31,764	0.50	1.00	2.00	0.25	3.00	0.25	0.30			30.00
	79	30# pHaserFrac	Proppant Laden Fluid	Premium White 20/40	4.00	50	6,563	156.3	7,452	177.4	26,252	24,646	0.50	1.00	2.00	0.25	3.00	0.25	0.30			30.00
	80	FR Water	Spacer			50	1,500	35.7	2,327	55.4					2.00	0.25			0.30	0.50	0.50	
	81	FR Water	Flush			50	14,824	353.0	11,408	271.6					2.00	0.25			0.30	0.50	0.50	

**Customer**  
**Lease**  
**Formation**

**Bayswater E&P**  
**Booth G-26H**  
**Codell**

7/13/2014 API 05-123-36082-00

**HALLIBURTON** | Production Enhancement

Treatment Interval	Stage Number	Fluid Description	Stage Description	Proppant Description	Prop Conc (ppg)	Slurry Rate (bpm)	Design Clean Volume (gal)	Design Clean Volume (bbl)	Actual Clean Volume (gal)	Actual Clean Volume (bbl)	Design Prop Total (lbs)	Actual Prop Total (lbs)	CL-23 (gpt)	BA-20 (gpt)	OilPerm FMM-1 (gpt)	CLA-Web (gpt)	ViCon NF (gpt)	CAT-3 (gpt)	BE-7 (gpt)	FR-66 (gpt)	Optikleen-WF (gpt)	WG-18 (gpt)
10	82	FR Water	Pad			50	34,000	809.5	34,034	810.3					2.00	0.25			0.30	0.50	0.50	
	83	FR Water	Proppant Laden Fluid	Premium White 30/50	0.50	50	17,500	416.7	17,503	416.7	8,750	6,879			2.00	0.25			0.30	0.50	0.50	
	84	30# pHaserFrac	Proppant Laden Fluid	Premium White 30/50	1.00	50	8,750	208.3	8,771	208.8	8,750	6,707	0.50	1.00	2.00	0.25	3.00	0.25	0.30			30.00
	85	30# pHaserFrac	Proppant Laden Fluid	Premium White 30/50	2.00	50	21,875	520.8	21,875	520.8	43,750	39,058	0.50	1.00	2.00	0.25	3.00	0.25	0.30			30.00
	86	30# pHaserFrac	Proppant Laden Fluid	Premium White 30/50	2.50	50	21,000	500.0	20,991	499.8	52,500	47,915	0.50	1.00	2.00	0.25	3.00	0.25	0.30			30.00
	87	30# pHaserFrac	Proppant Laden Fluid	Premium White 30/50	3.00	50	11,667	277.8	11,677	278.0	35,001	33,804	0.50	1.00	2.00	0.25	3.00	0.25	0.30			30.00
	88	30# pHaserFrac	Proppant Laden Fluid	Premium White 30/50	4.00	50	6,563	156.3	7,755	184.6	26,252	23,893	0.50	1.00	2.00	0.25	3.00	0.25	0.30			30.00
	89	FR Water	Spacer			50	1,500	35.7	2,062	49.1					2.00	0.25			0.30	0.50	0.50	
	90	FR Water	Flush			50	14,824	353.0							2.00	0.25			0.30	0.50	0.50	
	91	FR Water	Pad			50	34,000	809.5	34,014	809.9					2.00	0.25			0.30	0.50	0.50	
11	92	FR Water	Proppant Laden Fluid	Premium White 30/50	0.50	50	17,500	416.7	18,700	445.2	8,750	7,509			2.00	0.25			0.30	0.50	0.50	
	93	30# pHaserFrac	Proppant Laden Fluid	Premium White 30/50	1.00	50	8,750	208.3	8,750	208.3	8,750	5,044	0.50	1.00	2.00	0.25	3.00	0.25	0.30			30.00
	94	30# pHaserFrac	Proppant Laden Fluid	Premium White 30/50	2.00	50	21,875	520.8	21,905	521.5	43,750	39,074	0.50	1.00	2.00	0.25	3.00	0.25	0.30			30.00
	95	30# pHaserFrac	Proppant Laden Fluid	Premium White 30/50	2.50	50	21,000	500.0	22,529	536.4	52,500	44,751	0.50	1.00	2.00	0.25	3.00	0.25	0.30			30.00
	96	30# pHaserFrac	Proppant Laden Fluid	Premium White 30/50	3.00	50	11,667	277.8	13,723	326.7	35,001	41,496	0.50	1.00	2.00	0.25	3.00	0.25	0.30			30.00
	97	30# pHaserFrac	Proppant Laden Fluid	Premium White 30/50	4.00	50	6,563	156.3	7,538	179.5	26,252	24,724	0.50	1.00	2.00	0.25	3.00	0.25	0.30			30.00
	98	FR Water	Spacer			50	1,500	35.7	2,441	58.1					2.00	0.25			0.30	0.50	0.50	
	99	FR Water	Flush			50	14,824	353.0							2.00	0.25			0.30	0.50	0.50	
	100	FR Water	Pad			50	34,000	809.5	34,028	810.2					2.00	0.25			0.30	0.50	0.50	
	101	FR Water	Proppant Laden Fluid	Premium White 30/50	0.50	50	17,500	416.7	17,528	417.3	8,750	7,324			2.00	0.25			0.30	0.50	0.50	
12	102	30# pHaserFrac	Proppant Laden Fluid	Premium White 30/50	1.00	50	8,750	208.3	8,758	208.5	8,750	8,898	0.50	1.00	2.00	0.25	3.00	0.25	0.30			30.00
	103	30# pHaserFrac	Proppant Laden Fluid	Premium White 30/50	2.00	50	21,875	520.8	21,894	521.3	43,750	44,565	0.50	1.00	2.00	0.25	3.00	0.25	0.30			30.00
	104	30# pHaserFrac	Proppant Laden Fluid	Premium White 30/50	2.50	50	21,000	500.0	21,004	500.1	52,500	54,393	0.50	1.00	2.00	0.25	3.00	0.25	0.30			30.00
	105	30# pHaserFrac	Proppant Laden Fluid	Premium White 30/50	3.00	50	11,667	277.8	11,696	278.5	35,001	36,179	0.50	1.00	2.00	0.25	3.00	0.25	0.30			30.00
	106	30# pHaserFrac	Proppant Laden Fluid	Premium White 30/50	4.00	50	6,563	156.3	7,977	189.9	26,252	26,691	0.50	1.00	2.00	0.25	3.00	0.25	0.30			30.00
	107	FR Water	Spacer			50	1,500	35.7	2,365	56.3					2.00	0.25			0.30	0.50	0.50	
	108	FR Water	Flush			50	14,824	353.0							2.00	0.25			0.30	0.50	0.50	
	109	FR Water	Pad			50	34,000	809.5	34,039	810.5					2.00	0.25			0.30	0.50	0.50	
	110	FR Water	Proppant Laden Fluid	Premium White 30/50	0.50	50	17,500	416.7	17,546	417.8	8,750	8,146			2.00	0.25			0.30	0.50	0.50	
	111	30# pHaserFrac	Proppant Laden Fluid	Premium White 30/50	1.00	50	8,750	208.3	8,765	208.7	8,750	8,873	0.50	1.00	2.00	0.25	3.00	0.25	0.30			30.00
13	112	30# pHaserFrac	Proppant Laden Fluid	Premium White 30/50	2.00	50	21,875	520.8	21,885	521.1	43,750	43,356	0.50	1.00	2.00	0.25	3.00	0.25	0.30			30.00
	113	30# pHaserFrac	Proppant Laden Fluid	Premium White 30/50	2.50	50	21,000	500.0	21,021	500.5	52,500	53,011	0.50	1.00	2.00	0.25	3.00	0.25	0.30			30.00
	114	30# pHaserFrac	Proppant Laden Fluid	Premium White 30/50	3.00	50	11,667	277.8	11,685	278.2	35,001	35,821	0.50	1.00	2.00	0.25	3.00	0.25	0.30			30.00
	115	30# pHaserFrac	Proppant Laden Fluid	Premium White 30/50	4.00	50	6,563	156.3	8,864	211.0	26,252	30,360	0.50	1.00	2.00	0.25	3.00	0.25	0.30			30.00
	116	FR Water	Spacer			50	1,500	35.7	2,370	56.4					2.00	0.25			0.30	0.50	0.50	
	117	FR Water	Flush			50	14,824	353.0							2.00	0.25			0.30	0.50	0.50	
	118	FR Water	Pad			50	34,000	809.5	34,108	812.1					2.00	0.25			0.30	0.50	0.50	
	119	FR Water	Proppant Laden Fluid	Premium White 30/50	0.50	50	17,500	416.7	17,512	417.0	8,750	7,989			2.00	0.25			0.30	0.50	0.50	
	120	30# pHaserFrac	Proppant Laden Fluid	Premium White 30/50	1.00	50	8,750	208.3	8,782	209.1	8,750	8,919	0.50	1.00	2.00	0.25	3.00	0.25	0.30			30.00
	121	30# pHaserFrac	Proppant Laden Fluid	Premium White 30/50	2.00	50	21,875	520.8	21,892	521.2	43,750	46,091	0.50	1.00	2.00	0.25	3.00	0.25	0.30			30.00
14	122	30# pHaserFrac	Proppant Laden Fluid	Premium White 30/50	2.50	50	21,000	500.0	22,456	534.7	52,500	56,367	0.50	1.00	2.00	0.25	3.00	0.25	0.30			30.00
	123	30# pHaserFrac	Proppant Laden Fluid	Premium White 30/50	3.00	50	11,667	277.8	11,816	281.3	35,001	36,020	0.50	1.00	2.00	0.25	3.00	0.25	0.30			30.00
	124	30# pHaserFrac	Proppant Laden Fluid	Premium White 30/50	4.00	50	6,563	156.3	7,940	189.0	26,252	25,331	0.50	1.00	2.00	0.25	3.00	0.25	0.30			30.00
	125	FR Water	Spacer			50	1,500	35.7	2,248	53.5					2.00	0.25			0.30	0.50	0.50	
	126	FR Water	Flush			50	14,824	353.0							2.00	0.25			0.30	0.50	0.50	
	127	FR Water	Pad			50	34,000	809.5	34,011	809.8					2.00	0.25			0.30	0.50	0.50	
	128	FR Water	Proppant Laden Fluid	Premium White 30/50	0.50	50	17,500	416.7	17,512	417.0	8,750	7,395			2.00	0.25			0.30	0.50	0.50	
	129	30# pHaserFrac	Proppant Laden Fluid	Premium White 30/50	1.00	50	8,750	208.3	8,761	208.6	8,750	8,939	0.50	1.00	2.00	0.25	3.00	0.25	0.30			30.00
	130	30# pHaserFrac	Proppant Laden Fluid	Premium White 30/50	2.00	50	21,875	520.8	21,877	520.9	43,750	44,308	0.50	1.00	2.00	0.25	3.00	0.25	0.30			30.00
	131	30# pHaserFrac	Proppant Laden Fluid	Premium White 30/50	2.50	50	21,000	500.0	20,998	500.0	52,500	53,867	0.50	1.00	2.00	0.25	3.00	0.25	0.30			30.00
15	132	30# pHaserFrac	Proppant Laden Fluid	Premium White 30/50	3.00	50	11,667	277.8	11,684	278.2	35,001	35,413	0.50	1.00	2.00	0.25	3.00	0.25	0.30			30.00
	133	30# pHaserFrac	Proppant Laden Fluid	Premium White 30/50	4.00	50	6,563	156.3	8,433	200.8	26,252	28,252	0.50	1.00	2.00	0.25	3.00	0.25	0.30			30.00
	134	FR Water	Spacer			50	1,500	35.7	2,266	54.0					2.00	0.25			0.30	0.50	0.50	
	135	FR Water	Flush			50	14,824	353.0							2.00	0.25			0.30	0.50	0.50	
	136	FR Water	Pad			50	34,000	809.5	34,013	809.8					2.00	0.25			0.30	0.50	0.50	
	137	FR Water	Proppant Laden Fluid	Premium White 30/50	0.50	50	17,500	416.7	17,493	416.5	8,7											

**Customer**  
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7/13/2014 API 05-123-36082-00

**HALLIBURTON** | Production Enhancement

Treatment Interval	Stage Number	Fluid Description	Stage Description	Proppant Description	Prop Conc (ppg)	Slurry Rate (bpm)	Design Clean Volume (gal)	Design Clean Volume (bbl)	Actual Clean Volume (gal)	Actual Clean Volume (bbl)	Design Prop Total (lbs)	Actual Prop Total (lbs)	CL-23 (gpt)	BA-20 (gpt)	OilPerm FMM-1 (gpt)	CLA-Web (gpt)	ViCon NF (gpt)	CAT-3 (gpt)	BE-7 (gpt)	FR-66 (gpt)	Optikleen-WF (gpt)	WG-18 (gpt)
17	145	FR Water	Pad			50	34,000	809.5	34,043	810.5					2.00	0.25			0.30	0.50	0.50	
	146	FR Water	Proppant Laden Fluid	Premium White 30/50	0.50	50	17,500	416.7	17,529	417.4	8,750	6,990			2.00	0.25			0.30	0.50	0.50	
	147	30# pHaserFrac	Proppant Laden Fluid	Premium White 30/50	1.00	50	8,750	208.3	9,844	234.4	8,750	9,387	0.50	1.00	2.00	0.25	3.00	0.25	0.30			30.00
	148	30# pHaserFrac	Proppant Laden Fluid	Premium White 30/50	2.00	50	21,875	520.8	21,919	521.9	43,750	44,073	0.50	1.00	2.00	0.25	3.00	0.25	0.30			30.00
	149	30# pHaserFrac	Proppant Laden Fluid	Premium White 30/50	2.50	50	21,000	500.0	21,033	500.8	52,500	53,609	0.50	1.00	2.00	0.25	3.00	0.25	0.30			30.00
	150	30# pHaserFrac	Proppant Laden Fluid	Premium White 30/50	3.00	50	11,667	277.8	11,702	278.6	35,001	36,235	0.50	1.00	2.00	0.25	3.00	0.25	0.30			30.00
	151	30# pHaserFrac	Proppant Laden Fluid	Premium White 30/50	4.00	50	6,563	156.3	7,812	186.0	26,252	27,128	0.50	1.00	2.00	0.25	3.00	0.25	0.30			30.00
	152	FR Water	Spacer			50	1,500	35.7	2,258	53.8					2.00	0.25			0.30	0.50	0.50	
	153	FR Water	Flush			50	14,824	353.0							2.00	0.25			0.30	0.50	0.50	
	154	FR Water	Pad			50	34,000	809.5	34,025	810.1					2.00	0.25			0.30	0.50	0.50	
18	155	FR Water	Proppant Laden Fluid	Premium White 30/50	0.50	50	17,500	416.7	17,545	417.7	8,750	7,472			2.00	0.25			0.30	0.50	0.50	
	156	30# pHaserFrac	Proppant Laden Fluid	Premium White 30/50	1.00	50	8,750	208.3	10,008	238.3	8,750	9,314	0.50	1.00	2.00	0.25	3.00	0.25	0.30			30.00
	157	30# pHaserFrac	Proppant Laden Fluid	Premium White 30/50	2.00	50	21,875	520.8	21,971	523.1	43,750	44,139	0.50	1.00	2.00	0.25	3.00	0.25	0.30			30.00
	158	30# pHaserFrac	Proppant Laden Fluid	Premium White 30/50	2.50	50	21,000	500.0	21,039	500.9	52,500	53,462	0.50	1.00	2.00	0.25	3.00	0.50	0.30			30.00
	159	30# pHaserFrac	Proppant Laden Fluid	Premium White 30/50	3.00	50	11,667	277.8	11,720	279.0	35,001	36,127	0.50	1.00	2.00	0.25	3.00	0.50	0.30			30.00
	160	30# pHaserFrac	Proppant Laden Fluid	Premium White 30/50	4.00	50	6,563	156.3	7,738	184.2	26,252	26,570	0.50	1.00	2.00	0.25	3.00	0.50	0.30			30.00
	161	FR Water	Spacer			50	1,500	35.7	2,274	54.1					2.00	0.25			0.30	0.50	0.50	
	162	FR Water	Flush			50	14,824	353.0							2.00	0.25			0.30	0.50	0.50	

**Customer**  
**Lease**  
**Formation**

**Bayswater E&P**  
**Booth G-26H**  
**Codell**

7/13/2014 API 05-123-36082-00

**HALLIBURTON** | Production Enhancement

Treatment Interval	Stage Number	Fluid Description	Stage Description	Proppant Description	Prop Conc (ppg)	Slurry Rate (bpm)	Design Clean Volume (gal)	Design Clean Volume (bbl)	Actual Clean Volume (gal)	Actual Clean Volume (bbl)	Design Prop Total (lbs)	Actual Prop Total (lbs)	CL-23 (gpt)	BA-20 (gpt)	OilPerm FMM-1 (gpt)	CLA-Web (gpt)	ViCon NF (gpt)	CAT-3 (gpt)	BE-7 (gpt)	FR-66 (gpt)	Optikleen-WF (gpt)	WG-18 (gpt)
19	163	FR Water	Pad			50	34,000	809.5	34,039	810.5					2.00	0.25				0.30	0.50	0.50
	164	FR Water	Proppant Laden Fluid	Premium White 30/50	0.50	50	17,500	416.7	17,508	416.9	8,750	8,428			2.00	0.25				0.30	0.50	0.50
	165	30# pHaserFrac	Proppant Laden Fluid	Premium White 30/50	1.00	50	8,750	208.3	8,771	208.8	8,750	8,422	0.50	1.00	2.00	0.25	3.00	0.25	0.30			30.00
	166	30# pHaserFrac	Proppant Laden Fluid	Premium White 30/50	2.00	50	21,875	520.8	21,939	522.4	43,750	44,146	0.50	1.00	2.00	0.25	3.00	0.25	0.30			30.00
	167	30# pHaserFrac	Proppant Laden Fluid	Premium White 30/50	2.50	50	21,000	500.0	21,035	500.8	52,500	53,158	0.50	1.00	2.00	0.25	3.00	0.50	0.30			30.00
	168	30# pHaserFrac	Proppant Laden Fluid	Premium White 30/50	3.00	50	11,667	277.8	11,674	278.0	35,001	35,708	0.50	1.00	2.00	0.25	3.00	0.50	0.30			30.00
	169	30# pHaserFrac	Proppant Laden Fluid	Premium White 30/50	4.00	50	6,563	156.3	8,410	200.2	26,252	26,914	0.50	1.00	2.00	0.25	3.00	0.50	0.30			30.00
	170	FR Water	Spacer			50	1,500	35.7	2,199	52.4					2.00	0.25				0.30	0.50	0.50
	171	FR Water	Flush			50	14,824	353.0							2.00	0.25				0.30	0.50	0.50
	172	FR Water	Pad			50	34,000	809.5	34,022	810.0					2.00	0.25				0.30	0.50	0.50
20	173	FR Water	Proppant Laden Fluid	Premium White 30/50	0.50	50	17,500	416.7	17,573	418.4	8,750	8,888			2.00	0.25				0.30	0.50	0.50
	174	30# pHaserFrac	Proppant Laden Fluid	Premium White 30/50	1.00	50	8,750	208.3	8,804	209.6	8,750	8,762	0.50	1.00	2.00	0.25	3.00	0.25	0.30			30.00
	175	30# pHaserFrac	Proppant Laden Fluid	Premium White 30/50	2.00	50	21,875	520.8	21,915	521.8	43,750	42,185	0.50	1.00	2.00	0.25	3.00	0.25	0.30			30.00
	176	30# pHaserFrac	Proppant Laden Fluid	Premium White 30/50	2.50	50	21,000	500.0	21,427	510.2	52,500	54,598	0.50	1.00	2.00	0.25	3.00	0.50	0.30			30.00
	177	30# pHaserFrac	Proppant Laden Fluid	Premium White 30/50	3.00	50	11,667	277.8	12,146	289.2	35,001	35,451	0.50	1.00	2.00	0.25	3.00	0.50	0.30			30.00
	178	30# pHaserFrac	Proppant Laden Fluid	Premium White 30/50	4.00	50	6,563	156.3	8,184	194.9	26,252	26,985	0.50	1.00	2.00	0.25	3.00	0.50	0.30			30.00
	179	FR Water	Spacer			50	1,500	35.7	2,102	50.0					2.00	0.25				0.30	0.50	0.50
	180	FR Water	Flush			50	14,824	353.0							2.00	0.25				0.30	0.50	0.50
	181	FR Water	Pad			50	34,000	809.5	34,034	810.3					2.00	0.25				0.30	0.50	0.50
	182	FR Water	Proppant Laden Fluid	Premium White 30/50	0.50	50	17,500	416.7	18,103	431.0	8,750	9,109			2.00	0.25				0.30	0.50	0.50
21	183	30# pHaserFrac	Proppant Laden Fluid	Premium White 30/50	1.00	50	8,750	208.3	8,771	208.8	8,750	8,555	0.50	1.00	2.00	0.25	3.00	0.25	0.30			30.00
	184	30# pHaserFrac	Proppant Laden Fluid	Premium White 30/50	2.00	50	21,875	520.8	21,916	521.8	43,750	44,211	0.50	1.00	2.00	0.25	3.00	0.25	0.30			30.00
	185	30# pHaserFrac	Proppant Laden Fluid	Premium White 30/50	2.50	50	21,000	500.0	21,015	500.4	52,500	54,617	0.50	1.00	2.00	0.25	3.00	0.50	0.30			30.00
	186	30# pHaserFrac	Proppant Laden Fluid	Premium White 30/50	3.00	50	11,667	277.8	11,725	279.2	35,001	36,290	0.50	1.00	2.00	0.25	3.00	0.50	0.30			30.00
	187	30# pHaserFrac	Proppant Laden Fluid	Premium White 30/50	4.00	50	6,563	156.3	7,987	190.2	26,252	27,424	0.50	1.00	2.00	0.25	3.00	0.50	0.30			30.00
	188	FR Water	Spacer			50	1,500	35.7	2,334	55.6					2.00	0.25				0.30	0.50	0.50
	189	FR Water	Flush			50	14,824	353.0							2.00	0.25				0.30	0.50	0.50
	190	FR Water	Pad			50	34,000	809.5	34,047	810.6					2.00	0.25				0.30	0.50	0.50
	191	FR Water	Proppant Laden Fluid	Premium White 30/50	0.50	50	17,500	416.7	17,796	423.7	8,750	8,679			2.00	0.25				0.30	0.50	0.50
	192	30# pHaserFrac	Proppant Laden Fluid	Premium White 30/50	1.00	50	8,750	208.3	8,884	211.5	8,750	8,535	0.50	1.00	2.00	0.25	3.00	0.50	0.30			30.00
22	193	30# pHaserFrac	Proppant Laden Fluid	Premium White 30/50	2.00	50	21,875	520.8	21,971	523.1	43,750	44,729	0.50	1.00	2.00	0.25	3.00	0.50	0.30			30.00
	194	30# pHaserFrac	Proppant Laden Fluid	Premium White 30/50	2.50	50	21,000	500.0	21,075	501.8	52,500	53,394	0.50	1.00	2.00	0.25	3.00	0.50	0.30			30.00
	195	30# pHaserFrac	Proppant Laden Fluid	Premium White 30/50	3.00	50	11,667	277.8	11,701	278.6	35,001	36,395	0.50	1.00	2.00	0.25	3.00	0.50	0.30			30.00
	196	30# pHaserFrac	Proppant Laden Fluid	Premium White 30/50	4.00	50	6,563	156.3	8,190	195.0	26,252	27,672	0.50	1.00	2.00	0.25	3.00	0.50	0.30			30.00
	197	FR Water	Spacer			50	1,500	35.7	2,133	50.8					2.00	0.25				0.30	0.50	0.50
	198	FR Water	Flush			50	14,824	353.0							2.00	0.25				0.30	0.50	0.50
	199	FR Water	Pad			50	34,000	809.5	37,157	884.7					2.00	0.25				0.30	0.50	0.50
	200	FR Water	Proppant Laden Fluid	Premium White 30/50	0.50	50	17,500	416.7	17,551	417.9	8,750	8,139			2.00	0.25				0.30	0.50	0.50
	201	30# pHaserFrac	Proppant Laden Fluid	Premium White 30/50	1.00	50	8,750	208.3	8,777	209.0	8,750	8,050	0.50	1.00	2.00	0.25	3.00	0.50	0.30			30.00
	202	30# pHaserFrac	Proppant Laden Fluid	Premium White 30/50	2.00	50	21,875	520.8	21,991	523.6	43,750	45,301	0.50	1.00	2.00	0.25	3.00	0.50	0.30			30.00
23	203	30# pHaserFrac	Proppant Laden Fluid	Premium White 30/50	2.50	50	21,000	500.0	21,012	500.3	52,500	52,792	0.50	1.00	2.00	0.25	3.00	0.50	0.30			30.00
	204	30# pHaserFrac	Proppant Laden Fluid	Premium White 30/50	3.00	50	11,667	277.8	11,699	278.5	35,001	36,421	0.50	1.00	2.00	0.25	3.00	0.50	0.30			30.00
	205	30# pHaserFrac	Proppant Laden Fluid	Premium White 30/50	4.00	50	6,563	156.3	7,857	187.1	26,252	27,441	0.50	1.00	2.00	0.25	3.00	0.50	0.30			30.00
	206	FR Water	Spacer			50	1,500	35.7	2,296	54.7					2.00	0.25				0.30	0.50	0.50
	207	FR Water	Flush			50	14,824	353.0							2.00	0.25				0.30	0.50	0.50
	208	FR Water	Pad			50	34,000	809.5	34,071	811.2					2.00	0.25				0.30	0.50	0.50
	209	FR Water	Proppant Laden Fluid	Premium White 30/50	0.50	50	17,500	416.7	17,617	419.5	8,750	6,947			2.00	0.25				0.30	0.50	0.50
	210	30# pHaserFrac	Proppant Laden Fluid	Premium White 30/50	1.00	50	8,750	208.3	8,803	209.6	8,750	8,125	0.50	1.00	2.00	0.25	3.00	0.50	0.30			30.00
	211	30# pHaserFrac	Proppant Laden Fluid	Premium White 30/50	2.00	50	21,875	520.8	21,931	522.2	43,750	44,975	0.50	1.00	2.00	0.25	3.00	0.50	0.30			30.00
	212	30# pHaserFrac	Proppant Laden Fluid	Premium White 30/50	2.50	50	21,000	500.0	21,011	500.3	52,500	53,244	0.50	1.00	2.00	0.25	3.00	0.50	0.30			30.00
24	213	30# pHaserFrac	Proppant Laden Fluid	Premium White 30/50	3.00	50	11,667	277.8	11,913	283.6	35,001	36,555	0.50	1.00	2.00	0.25	3.00	0.50	0.30			30.00
	214	30# pHaserFrac	Proppant Laden Fluid	Premium White 30/50	4.00	50	6,563	156.3	7,505	178.7	26,252	27,479	0.50	1.00	2.00	0.25	3.00	0.50	0.30			30.00
	215	FR Water	Spacer			50	1,500	35.7	2,189	52.1					2.00	0.25				0.30	0.50	0.50
	216	FR Water	Flush			50	14,824	353.0							2.00	0.25				0.30	0.50	0.50

**HALLIBURTON** | Production Enhancement

Treatment Interval	Stage Number	Fluid Description	Stage Description	Proppant Description	Prop Conc (ppg)	Slurry Rate (bpm)	Design Clean Volume (gal)	Design Clean Volume (bbl)	Actual Clean Volume (gal)	Actual Clean Volume (bbl)	Design Prop Total (lbs)	Actual Prop Total (lbs)	CL-23 (gpt)	BA-20 (gpt)	OilPerm FMM-1 (gpt)	CLA-Web (gpt)	ViCon NF (gpt)	CAT-3 (gpt)	BE-7 (gpt)	FR-66 (gpt)	Optikleen-WF (gpt)	WG-18 (gpt)
25	217	FR Water	Pad			50	34,000	809.5	34,023	810.1					2.00	0.25			0.30	0.50	0.50	
	218	FR Water	Proppant Laden Fluid	Premium White 30/50	0.50	50	17,500	416.7	12,923	307.7	8,750	6,878			2.00	0.25			0.30	0.50	0.50	
		30# pHaserFrac	Proppant Laden Fluid	Premium White 30/50	0.50				4,614	109.9		1,500	0.50	1.00	2.00	0.25	3.00	0.25	0.30			30.00
	219	30# pHaserFrac	Proppant Laden Fluid	Premium White 30/50	1.00	50	8,750	208.3	8,933	212.7	8,750	8,483	0.50	1.00	2.00	0.25	3.00	0.50	0.30			30.00
	220	30# pHaserFrac	Proppant Laden Fluid	Premium White 30/50	2.00	50	21,875	520.8	22,312	531.2	43,750	44,681	0.50	1.00	2.00	0.25	3.00	0.50	0.30			30.00
	221	30# pHaserFrac	Proppant Laden Fluid	Premium White 30/50	2.50	50	21,000	500.0	21,028	500.7	52,500	55,283	0.50	1.00	2.00	0.25	3.00	0.50	0.30			30.00
	222	30# pHaserFrac	Proppant Laden Fluid	Premium White 30/50	3.00	50	11,667	277.8	11,670	277.9	35,001	36,698	0.50	1.00	2.00	0.25	3.00	0.50	0.30			30.00
	223	30# pHaserFrac	Proppant Laden Fluid	Premium White 30/50	4.00	50	6,563	156.3	7,323	174.4	26,252	26,510	0.50	1.00	2.00	0.25	3.00	0.50	0.30			30.00
	224	FR Water	Spacer			50	1,500	35.7	2,140	51.0					2.00	0.25			0.30	0.50	0.50	
225	FR Water	Flush			50	14,824	353.0							2.00	0.25			0.30	0.50	0.50		
26	226	FR Water	Pad			50	34,000	809.5	34,169	813.5					2.00	0.25			0.30	0.50	0.50	
	227	FR Water	Proppant Laden Fluid	Premium White 30/50	0.50	50	17,500	416.7	17,740	422.4	8,750	8,920			2.00	0.25			0.30	0.50	0.50	
	228	30# pHaserFrac	Proppant Laden Fluid	Premium White 30/50	1.00	50	8,750	208.3	8,835	210.4	8,750	9,332	0.50	1.00	2.00	0.25	3.00	0.50	0.30			30.00
	229	30# pHaserFrac	Proppant Laden Fluid	Premium White 30/50	2.00	50	21,875	520.8	21,880	521.0	43,750	45,718	0.50	1.00	2.00	0.25	3.00	0.50	0.30			30.00
	230	30# pHaserFrac	Proppant Laden Fluid	Premium White 30/50	2.50	50	21,000	500.0	21,078	501.9	52,500	55,255	0.50	1.00	2.00	0.25	3.00	0.50	0.30			30.00
	231	30# pHaserFrac	Proppant Laden Fluid	Premium White 30/50	3.00	50	11,667	277.8	11,682	278.1	35,001	36,458	0.50	1.00	2.00	0.25	3.00	0.50	0.30			30.00
	232	30# pHaserFrac	Proppant Laden Fluid	Premium White 30/50	4.00	50	6,563	156.3	8,054	191.8	26,252	27,462	0.50	1.00	2.00	0.25	3.00	0.50	0.30			30.00
	233	FR Water	Spacer			50	1,500	35.7	2,147	51.1					2.00	0.25			0.30	0.50	0.50	
	234	FR Water	Flush			50	14,824	353.0							2.00	0.25			0.30	0.50	0.50	
27	235	FR Water	Pad			50	34,000	809.5	34,021	810.0					2.00	0.25			0.30	0.50	0.50	
	236	FR Water	Proppant Laden Fluid	Premium White 30/50	0.50	50	17,500	416.7	17,516	417.0	8,750	9,262			2.00	0.25			0.30	0.50	0.50	
	237	30# pHaserFrac	Proppant Laden Fluid	Premium White 30/50	1.00	50	8,750	208.3	8,794	209.4	8,750	9,087	0.50	1.00	2.00	0.25	3.00	0.50	0.30			30.00
	238	30# pHaserFrac	Proppant Laden Fluid	Premium White 30/50	2.00	50	21,875	520.8	21,879	520.9	43,750	45,620	0.50	1.00	2.00	0.25	3.00	0.50	0.30			30.00
	239	30# pHaserFrac	Proppant Laden Fluid	Premium White 30/50	2.50	50	21,000	500.0	21,044	501.0	52,500	55,398	0.50	1.00	2.00	0.25	3.00	0.50	0.30			30.00
	240	30# pHaserFrac	Proppant Laden Fluid	Premium White 30/50	3.00	50	11,667	277.8	11,703	278.6	35,001	36,926	0.50	1.00	2.00	0.25	3.00	0.50	0.30			30.00
	241	30# pHaserFrac	Proppant Laden Fluid	Premium White 30/50	4.00	50	6,563	156.3	8,862	211.0	26,252	27,152	0.50	1.00	2.00	0.25	3.00	0.50	0.30			30.00
	242	FR Water	Spacer			50	1,500	35.7	2,256	53.7					2.00	0.25			0.30	0.50	0.50	
	243	FR Water	Flush			50	14,824	353.0							2.00	0.25			0.30	0.50	0.50	
28	244	FR Water	Pad			50	34,000	809.5	34,046	810.6					2.00	0.25			0.30	0.50	0.50	
	245	FR Water	Proppant Laden Fluid	Premium White 30/50	0.50	50	17,500	416.7	17,545	417.7	8,750	8,983			2.00	0.25			0.30	0.50	0.50	
	246	30# pHaserFrac	Proppant Laden Fluid	Premium White 30/50	1.00	50	8,750	208.3	8,763	208.6	8,750	9,508	0.50	1.00	2.00	0.25	3.00	0.50	0.30			30.00
	247	30# pHaserFrac	Proppant Laden Fluid	Premium White 30/50	2.00	50	21,875	520.8	21,890	521.2	43,750	45,110	0.50	1.00	2.00	0.25	3.00	0.50	0.30			30.00
	248	30# pHaserFrac	Proppant Laden Fluid	Premium White 30/50	2.50	50	21,000	500.0	21,037	500.9	52,500	55,871	0.50	1.00	2.00	0.25	3.00	0.50	0.30			30.00
	249	30# pHaserFrac	Proppant Laden Fluid	Premium White 30/50	3.00	50	11,667	277.8	11,709	278.8	35,001	36,751	0.50	1.00	2.00	0.25	3.00	0.50	0.30			30.00
	250	30# pHaserFrac	Proppant Laden Fluid	Premium White 30/50	4.00	50	6,563	156.3	8,861	211.0	26,252	29,402	0.50	1.00	2.00	0.25	3.00	0.50	0.30			30.00
	251	FR Water	Spacer			50	1,500	35.7	2,193	52.2					2.00	0.25			0.30	0.50	0.50	
	252	FR Water	Flush			50	14,824	353.0							2.00	0.25			0.30	0.50	0.50	
29	253	FR Water	Pad			50	34,000	809.5	34,038	810.4					2.00	0.25			0.30	0.50	0.50	
	254	FR Water	Proppant Laden Fluid	Premium White 30/50	0.50	50	17,500	416.7	17,527	417.3	8,750	7,921			2.00	0.25			0.30	0.50	0.50	
	255	30# pHaserFrac	Proppant Laden Fluid	Premium White 30/50	1.00	50	8,750	208.3	8,788	209.2	8,750	8,780	0.50	1.00	2.00	0.25	3.00	0.50	0.30			30.00
	256	30# pHaserFrac	Proppant Laden Fluid	Premium White 30/50	2.00	50	21,875	520.8	21,886	521.1	43,750	45,329	0.50	1.00	2.00	0.25	3.00	0.50	0.30			30.00
	257	30# pHaserFrac	Proppant Laden Fluid	Premium White 30/50	2.50	50	21,000	500.0	21,024	500.6	52,500	54,050	0.50	1.00	2.00	0.25	3.00	0.50	0.30			30.00
	258	30# pHaserFrac	Proppant Laden Fluid	Premium White 30/50	3.00	50	11,667	277.8	11,694	278.4	35,001	35,382	0.50	1.00	2.00	0.25	3.00	0.50	0.30			30.00
	259	30# pHaserFrac	Proppant Laden Fluid	Premium White 30/50	4.00	50	6,563	156.3	9,778	232.8	26,252	31,896	0.50	1.00	2.00	0.25	3.00	0.50	0.30			30.00
	260	FR Water	Spacer			50	1,500	35.7	2,187	52.1					2.00	0.25			0.30	0.50	0.50	
	261	FR Water	Flush			50	14,824	353.0							2.00	0.25			0.30	0.50	0.50	
30	262	FR Water	Pad			50	34,000	809.5	34,047	810.6					2.00	0.25			0.30	0.50	0.50	
	263	FR Water	Proppant Laden Fluid	Premium White 30/50	0.50	50	17,500	416.7	17,546	417.8	8,750	7,129			2.00	0.25			0.30	0.50	0.50	
	264	30# pHaserFrac	Proppant Laden Fluid	Premium White 30/50	1.00	50	8,750	208.3	8,758	208.5	8,750	7,339	0.50	1.00	2.00	0.25	3.00	0.50	0.30			30.00
	265	30# pHaserFrac	Proppant Laden Fluid	Premium White 30/50	2.00	50	21,875	520.8	21,893	521.3	43,750	41,754	0.50	1.00	2.00	0.25	3.00	0.50	0.30			30.00
	266	30# pHaserFrac	Proppant Laden Fluid	Premium White 30/50	2.50	50	21,000	500.0	21,002	500.0	52,500	50,463	0.50	1.00	2.00	0.25	3.00	0.50	0.30			30.00
	267	30# pHaserFrac	Proppant Laden Fluid	Premium White 30/50	3.00	50	11,667	277.8	11,932	284.1	35,001	31,757	0.50	1.00	2.00	0.25	3.00	0.50	0.30			30.00
	268	30# pHaserFrac	Proppant Laden Fluid	Premium White 30/50	4.00	50	6,563	156.3	12,074	287.5	26,252	17,355	0.50	1.00	2.00	0.25	3.00	0.50	0.30			30.00
	269	FR Water	Spacer			50	1,500	35.7							2.00	0.25			0.30	0.50	0.50	
	270	FR Water	Flush			50	12,600	300.0	12,667	301.6					2.00	0.25			0.05	0.05	0.05	
						Total Fluid	4,128,746	98,303.5	3879476	92,368.5	5,234,777.5											

Customer  
Lease  
Formation

Bayswater E&P  
Booth G-26H  
Codell

7/13/2014

API

05-123-36082-00

HALLIBURTON

Production  
Enhancement

Treatment Interval	Stage Number	Fluid Description	Stage Description	Proppant Description	Prop Conc (ppg)	Slurry Rate (bpm)	Design Clean Volume (gal)	Design Clean Volume (bbl)	Actual Clean Volume (gal)	Actual Clean Volume (bbl)	Design Prop Total (lbs)	Actual Prop Total (lbs)	CL-23 (gpt)	BA-20 (gpt)	OilPerm FMM-1 (gpt)	CLA-Web (gpt)	ViCon NF (gpt)	CAT-3 (gpt)	BE-7 (gpt)	FR-66 (gpt)	Optikleen-WF (ppt)	WG-18 (ppt)	
													Total Proppant (lbs)	CL-23 (gal)	BA-20 (gal)	OilPerm FMM-1 (gal)	CLA-Web (gal)	ViCon NF (gal)	CAT-3 (gal)	BE-7 (gal)	FR-66 (gal)	Optikleen-WF (lbs)	WG-18 (lbs)
Initial Designed Material Volume													5,234,778	1,136	2,271	8,235	1,030	6,813	764	1,235	923	923	68,135
Actual Designed Material Volume													5,063,071	1,225	2,449	7,737	968	7,347	816	1,161	709	709	73,473
Physical Material Volume Pumped													5,316,182	1,205	2,456	7,904	1,030	7,117	921	1,180	763	814	71,270
Percent Variance													5.0%	-1.6%	0.3%	2.2%	6.4%	-3.1%	12.9%	1.7%	7.5%	14.7%	-3.0%

	CL-23	BA-20	OilPerm FMM-1	CLA-Web	ViCon NF	CAT-3	BE-7	FR-66	Optikleen-WF	WG-18
	(gal)	(gal)	(gal)	(gal)	(gal)	(gal)	(gal)	(gal)	(lbs)	(lbs)
Loaded	2,163	4,035	2,332	657	6,249	468	487	501	1,626	125,023
Excess	1,027	1,764	-5,903	-373	-564	-296	-748	-422	703	56,889

## Pre-Job Information

Directional Information		
	MD	TVD
KOP		
Start of Lateral	7,382	7,135
End of Lateral	12,411	7,135

Designed Proppant Mass		
Premium White 20/40	1,559,715	lbs.
Premium White 30/50	3,675,063	lbs.
-		lbs.
-		lbs.
-		lbs.
Designed Fluid Volumes		
FR Water	1,857,596	gal.
30# pHaserFrac	2,271,150	gal.
Linear Gel		gal.
-		gal.
-		gal.

BFD	8.33 lb/gal
Initial ISIP	3,931 psi
Initial FG	0.984 psi/ft
Final ISIP	3,875 psi
Final FG	0.976 psi/ft

Customer Bayswater E&P  
Well Booth G-26H  
Formation Codell

Stage Summaries

Interval	Average					Max		Fluids						Proppants		
	Pressure	Rate	Visc	Temp	pH	Pressure	Rate	FR Water		30# pHaserFrac		Total Fluid		Premium White 20/40	Premium White 30/50	Total Proppant
								gal	bbl	gal	bbl	gal	bbl	lbs	lbs	lbs
1	6101	24.3	25	77	4.96	6478	25.8	25,696	612	127,501	3,036	153,197	3,648	85,000	0	85,000
2	6161	25.9	25	73	4.98	6276	27.4	1,819	43	134,396	3,200	136,215	3,243	155,766	0	155,766
3	6381	29.5	23	74	5.00	7064	29.7	21,446	511	103,430	2,463	124,876	2,973	154,330	0	154,330
4	6479	32.4	23	77	4.97	7317	38.9	46,214	1,100	108,667	2,587	154,881	3,688	155,782	0	160,265
5	6856	37.1	22	78	4.90	7430	37.4	36,084	859	88,412	2,105	124,496	2,964	158,262	0	158,262
6	6268	35.2	24	77	4.98	7047	35.8	48,918	1,165	88,773	2,114	137,691	3,278	160,033	0	160,033
7	6444	39.1	23	73	4.96	6999	40.5	15,225	363	109,611	2,610	124,836	2,972	159,525	0	159,525
8	5932	39.6	24	71	4.94	6304	39.8	40,678	969	96,262	2,292	136,940	3,260	156,296	0	156,296
9	6343	45.7	25	73	4.95	7082	47.1	52,990	1,262	70,766	1,685	123,756	2,947	163,112	0	163,112
10	6309	48.5	25	72	4.96	6794	50.3	53,599	1,276	71,069	1,692	124,668	2,968	0	158,256	158,256
11	6064	52.0	26	71	4.99	6401	52.3	55,155	1,313	74,445	1,773	129,600	3,086	0	162,598	162,598
12	5798	52.0	26	69	4.97	6019	52.2	53,921	1,284	71,329	1,698	125,250	2,982	0	178,050	178,050
13	5614	52.1	25	70	4.99	5928	52.4	53,955	1,285	72,220	1,720	126,175	3,004	0	179,567	179,567
14	5331	52.1	24	68	4.97	5745	52.5	53,868	1,283	72,886	1,735	126,754	3,018	0	180,717	180,717
15	5087	52.2	26	68	4.99	5597	52.5	53,789	1,281	71,753	1,708	125,542	2,989	0	178,174	178,174
16	4904	52.2	25	68	4.96	5431	52.5	53,845	1,282	71,973	1,714	125,818	2,996	0	178,487	178,487
17	4962	51.2	25	72	4.99	6665	51.5	53,830	1,282	72,310	1,722	126,140	3,003	0	177,422	177,422
18	5141	54.1	24	73	4.99	6019	54.3	53,844	1,282	72,476	1,726	126,320	3,008	0	177,084	177,084
19	4741	54.1	23	73	4.98	5339	54.4	53,746	1,280	71,829	1,710	125,575	2,990	0	176,776	176,776
20	4816	54.1	23	73	4.98	5525	54.8	53,697	1,279	72,476	1,726	126,173	3,004	0	176,869	176,869
21	4551	53.7	24	74	4.99	5060	55.0	54,471	1,297	71,414	1,700	125,885	2,997	0	180,206	180,206
22	4504	54.3	25	74	4.99	5394	54.5	53,976	1,285	71,821	1,710	125,797	2,995	0	179,404	179,404
23	4570	54.7	25	73	4.99	4999	54.9	57,004	1,357	71,336	1,698	128,340	3,056	0	178,144	178,144
24	4476	54.7	25	73	5.02	4932	55.0	53,877	1,283	71,163	1,694	125,040	2,977	0	177,325	177,325
25	4437	54.6	25	74	5.01	4850	54.8	49,086	1,169	75,880	1,807	124,966	2,975	0	180,033	180,033
26	4194	54.7	25	73	5.00	4764	55.0	54,056	1,287	71,529	1,703	125,585	2,990	0	183,145	183,145
27	4229	54.6	26	73	5.00	5608	55.2	53,793	1,281	72,282	1,721	126,075	3,002	0	183,445	183,445
28	4211	54.9	26	73	5.00	4805	55.2	53,784	1,281	72,260	1,720	126,044	3,001	0	185,625	185,625
29	3897	54.9	25	71	5.00	5481	55.1	53,752	1,280	73,170	1,742	126,922	3,022	0	183,358	183,358
30	3964	54.9	25	71	5.00	5432	55.1	64,260	1,530	75,659	1,801	139,919	3,331	0	155,797	155,797

Planned Pumped*	Average					Max		Fluids						Proppants**		
	Pressure	Rate	Visc	Temp	pH	Pressure	Rate	FR Water		30# pHaserFrac		Total Fluid		Premium White 20/40	Premium White 30/50	Total Proppant
								gal	bbl	gal	bbl	gal	bbl	lbs	lbs	Total
								1,857,596	44,228	2,271,150	54,075	4,128,746	98,303	1,559,715	3,675,063	5,234,778
	5292	47.6	25	73	4.98	7430	55.2	1,430,378	34,057	2,449,098	58,312	3,879,476	92,368	1,348,106	3,710,482	5,063,071
	Weight Tickets													972,367	3,710,482	4,682,849

\*Pumped values are taken from IFS Software measurements

\*\* IFS numbers for proppant are taken from software calculations based on multiple variables

\*\* Proppant is billed from Weight Ticket volumes

**Customer** Bayswater E&P  
**Well** Booth G-26H  
**Formation** Codell  
**API** 05-123-36082-00  
**Date** Sunday, July 13, 2014



**Interval Summary - Chemicals**

Interval	CL-23	BA-20	OilPerm FMM-1	CLA-Web	ViCon NF	CAT-3	BE-7	FR-66	Optikleen-WF	WG-18
1	58	118	284	36	360	29	43	13	13	3714
2	37	117	269	34	209	29	42	2	2	3534
3	52	110	250	31	305	35	37	8	11	2917
4	42	115	348	44	282	32	53	28	76	2826
5	36	90	261	33	212	27	38	26	27	2558
6	74	90	463	76	448	57	77	63	64	2943
7	52	114	270	35	330	40	40	14	14	3077
8	46	87	214	28	260	31	32	7	8	2644
9	38	69	250	30	219	28	36	26	26	2125
10	35	73	236	32	213	28	35	28	27	2146
11	32	68	233	31	210	25	37	27	26	1958
12	37	74	253	33	223	27	39	28	27	2107
13	37	75	254	31	205	28	37	28	27	2125
14	38	76	264	33	229	29	38	28	27	2153
15	37	75	246	30	215	29	37	28	27	2111
16	36	73	255	32	217	29	38	26	27	2115
17	37	74	239	34	217	27	37	27	27	2193
18	37	74	261	33	221	35	35	27	27	2159
19	37	68	250	33	209	35	39	27	27	2071
20	37	74	261	33	206	35	37	28	27	2171
21	37	75	250	32	207	34	36	26	27	2119
22	37	74	261	32	207	27	37	28	27	2043
23	37	73	249	34	206	26	37	28	29	2107
24	37	73	238	33	205	27	37	25	27	2210
25	37	73	244	32	207	29	37	27	27	2197
26	37	74	267	36	224	27	42	32	32	2170
27	37	70	263	31	213	30	36	27	27	2168
28	35	75	251	33	211	27	37	26	27	2147
29	38	76	251	33	210	30	36	27	27	2195
30	38	79	269	32	237	29	38	28	27	2267
<b>Total</b>	<b>1205</b>	<b>2456</b>	<b>7904</b>	<b>1030</b>	<b>7117</b>	<b>921</b>	<b>1180</b>	<b>763</b>	<b>814</b>	<b>71270</b>



# Sand Tracking

Lease Bayswater Booth Pad  
 Date Started 7/7/14  
 Crew BLUE

Type	Premium White 20/40	Premium White 30/50
G-26H Design Total	1,559,715	3,675,063
H-26H Design Total	3,325,057	875,015
I-26H Design Total	3,765,000	-
J-26H Design Total	4,900,000	-
K-26H Design Total	3,765,000	-
Pad Design Total	17,314,772	4,550,078
Delivered	15,846,220	4,472,280
G-26H Pumped Total	<b>972,367</b>	<b>3,710,482</b>
H-26H Pumped Total	<b>2,714,345</b>	<b>734,298</b>
I-26H Pumped Total	<b>3,823,728</b>	<b>0</b>
J-26H Pumped Total	<b>4,676,260</b>	<b>0</b>
K-26H Pumped Total	<b>3,659,520</b>	<b>0</b>
Needed	1,468,552	77,798
Loads Remaining	32.6	1.9
Should have on location	0.0	27,500.0

	Load ID	Weight (lbs)	Load ID	Weight (lbs)	
1	40826220	43040	41017321	45220	1
2	40826221	43100	41017326	42960	2
3	40826222	43120	41017327	43400	3
4	40826223	43180	41017324	45480	4
5	40826224	42980	41017322	45080	5
6	40826225	43020	41017328	43480	6
7	40826226	43040	41017329	46240	7
8	40826227	42980	41017330	42800	8
9	40826228	42960	41017332	42960	9
10	40826229	42680	41017331	42540	10
11	40826205	43000	41017336	44960	11
12	40826215	43020	41017337	25640	12
13	40826207	42960	40933730	45440	13
14	40826208	43000	41017335	44920	14
15	40826206	43000	41017333	44940	15
16	40826209	43120	128668	17920	16
17	40826210	43120	41017338	43000	17
18	40826211	43100	41021977	45160	18
19	40826212	43040	41021976	45420	19
20	40826385	43100	41017339	45140	20
21	40826388	42940	41041966	29980	21
22	40826387	43100	41017341	45140	22

23	40826389	43000	41017342	45140	23
24	40826386	43000	41017340	45220	24
25	40826214	43200	41017343	45240	25
26	40826392	43040	40936266	44880	26
27	40826393	43040	41017347	43320	27
28	40826396	43040	41021989	45200	28
29	40826391	43280	41017354	45080	29
30	40826390	43000	41017349	43440	30
31	40826394	42980	41017355	46760	31
32	40826395	43020	41017358	39260	32
33	40826397	43040	41017359	42960	33
34	40826398	43160	41017351	45320	34
35	40826400	43040	41017360	39700	35
36	40826399	43080	41017361	45880	36
37	40826402	43040	41017357	41120	37
38	40826403	42980	41017365	47200	38
39	40826405	42900	41017362	44980	39
40	40826401	43000	41017363	44740	40
41	40826404	43160	41017364	45920	41
42	40826406	42940	40933732	45440	42
43	40826409	43180	41017366	45300	43
44	40826407	43080	41017367	44540	44
45	40826410	43200	41017368	43800	45
46	40826408	43020	41017369	45140	46
47	40826413	43060	41017371	44940	47
48	40826411	43040	41017372	43180	48
49	40826412	43220	41051896	43160	49
50	40826416	43040	41051900	41220	50
51	40826414	43040	41051897	45500	51
52	40826417	43060	41051899	42800	52
53	40826418	43000	41051901	42580	53
54	40826419	43120	41051898	42740	54
55	40826415	43000	41051902	44040	55
56	40826420	43020	41051903	42740	56
57	40826421	43080	41051904	41700	57
58	40826423	43140	41051905	41220	58
59	40826422	43040	41051907	42800	59
60	40826425	43140	41051906	41440	60
61	40826424	43120	41051908	41820	61
62	40826426	42980	41060357	42200	62
63	40826427	42960	41051909	41340	63
64	40826429	43000	41060356	44600	64
65	40826428	42980	41051910	43460	65
66	40826430	43160	41051911	45120	66
67	40826431	43160	41051912	41540	67
68	40826432	43040	44060362	45040	68
69	40826433	43100	41051915	44540	69
70	40826437	43060	41060360	44740	70
71	40826435	43020	41060364	40820	71
72	40826436	43140	41060363	43160	72
73	40826434	43080	41060359	43620	73
74	40826438	43020	41051913	42000	74
75	40826440	43020	41060365	41140	75

76	40826439	43220	41060361	44280	76
77	40826441	43000	41051917	41160	77
78	40826442	43020	41051916	40340	78
79	40826443	42940	41051914	43100	79
80	40826444	43000	41060385	41500	80
81	40826445	43040	41060389	32940	81
82	40826446	43060	41060388	45660	82
83	40826447	42980	41060366	46540	83
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351	40963923	43120
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353	40963926	43020
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355	40963927	43080
356	40963929	45020
357	40963928	42960
358	40963936	45060
359	40963932	45140
360	40963933	43220

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Ball Size	Perf Depth (ft)						Sleeve										Low Point (psi)
	Zone #	Displacement to Perf (gal)	(BBLs)	Top	Btm	Zone #	Ball Drop Time (HH:MM:SS)	Ball Hit Time (HH:MM:SS)	JSV Drop (bbl)	JSV Hit (bbl)	Early (bbl)	Seat (psi)	Peak (psi)	Differential (psi)	Rate at Shift (bpm)	Formation Break (psi)	
3.775	30	12,180	290.0	7,838	7,740	30	5:37	5:47	65409	65735	-36.0	3884	5432	1548	14.9	5432	3974
3.646	29	12,282	292.4	7,995	7,896	29	4:20	4:43	62189	62450	31.4	3884	5481	1597	15	5481	3869
3.520	28	12,493	297.4	8,151	8,053	28	3:12	3:30	58987	59446	-161.6	3826	4094	268	20.3	4094	4073
3.398	27	12,591	299.8	8,307	8,310	27	19:09	2:17	55784	56054	29.8	3731	4512	781	15.0	4512	3941
3.280	26	12,689	302.1	8,464	8,467	26	18:02	18:17	52592	53000	-105.9	4059	4147	88	17.3	4147	3911
3.166	25	12,787	304.5	8,621	8,624	25	17:00	17:09	49429	49758	-24.5	4048	6202	2154	15.1	6202	4395
3.055	24	12,885	306.8	8,777	8,780	24	15:58	16:08	46270	46630	-53.2	3909	5640	1731	15.6	5640	4078
2.948	23	12,984	309.1	8,934	8,937	23	14:54	15:03	43028	43366	-28.9	3921	4979	1058	15.6	4979	4105
2.845	22	13,081	311.5	9,090	9,093	22	13:52	2:02	39846	40180	-22.5	3946	5394	1448	15.3	5394	4150
2.744	21	13,177	313.7	9,242	9,245	21	12:51	12:59	36676	36995	-5.3	4072	5060	988	15.9	5060	4000
2.647	20	13,274	316.0	9,397	9,400	20	11:50	11:58	33490	33803	3.0	4050	5296	1246	15.9	5296	3965
2.553	19	13,372	318.4	9,554	9,557	19	10:48	10:56	30323	30640	1.4	3960	4376	416	15.7	4376	4250
2.462	18	13,471	320.7	9,711	9,714	18	9:46	9:54	27132	27446	6.7	4141	6129	1988	13.4	6129	4550
2.374	17	13,569	323.1	9,868	9,871	17	0:16	8:48	23940	24253	10.1	3381	4993	1612	13.4	4993	4315
2.288	16	13,667	325.4	10,024	10,027	16	23:12	23:21	46276	46599	2.4	3977	6165	2188	14.9	6165	4258
2.206	15	13,765	327.7	10,181	10,184	15	22:09	22:17	43094	43423	-1.3	3914	5462	1548	14.9	5462	4241
2.126	14	13,858	330.0	10,329	10,332	14	21:04	21:13	39886	40215	1.0	4137	5803	1666	15.1	5803	4332
2.048	13	13,957	332.3	10,486	10,489	13	20:00	20:08	36681	37010	3.3	3927	5381	1454	15.1	5381	4237
1.973	12	14,054	334.6	10,641	10,644	12	18:55	19:04	33505	33843	-3.4	4196	5942	1746	15.2	5942	4290
1.900	11	14,152	337.0	10,798	10,801	11	17:49	17:58	30245	30583	-1.0	4167	5904	1737	15.4	5904	4191
1.830	10	14,248	339.2	10,951	10,954	10	7:56	16:49	27242	27439	142.2	4313	4568	255	15.1	4568	4563
1.762	9	14,346	341.6	11,107	11,110	9	2:28	6:50	27105	30523	-3076.4	4883	-	-	15.1	4890	4550
1.696	8	14,444	343.9	11,264	11,267	8	21:25	0:54	23936	24267	12.9	4566	5762	1196	15.1	5762	4611
1.632	7	14,542	346.2	11,420	11,423	7	16:33	20:07	20754	20871	229.2	4445	5587	1142	15.1	5587	4776
1.570	6	14,641	348.6	11,577	11,580	6	7:06	15:02	17296	17340	304.6	4736	5099	363	15.8	5585	5014
1.510	5	14,739	350.9	11,734	11,737	5	22:36	5:43	14186	14230	306.9	4339	5397	1058	14.9	5353	5350
1.453	4	14,836	353.2	11,889	11,892	4	20:12	20:26	10308	10667	-5.8	4559	4735	176	14.7	4735	4668
1.396	3	14,935	355.6	12,046	12,049	3	18:21	18:36	7143	7491	7.6	4629	5966	1337	15.4	5966	4845
1.342	2	15,032	357.9	12,202	12,205	2	16:03	16:18	3704	4041	20.9	4645	5475	830	15.1	5475	5342
1.289	1	15,127	360.2	12,353	12,356	1	9:00	9:31	12	217	155.4	4952	5562	610	8.5	4962	4962

**BAYSWATER EXPLORATION &  
730 17th STE 610  
Denver, CO 80202**

Booth G-26H

Interval 1-30  
Weld County, Colorado

Sales Order: 901484891

## Post Job Report

For: N/A

Date: Sunday, July 13, 2014

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**HALLIBURTON**

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## 1.0 PERFORMANCE HIGHLIGHTS

### 1.1 Treatment Summary

Start Time	13-Jul-14 08:12:16	
End Time	18-Jul-14 07:12:29	
Pump Time	2299.63	min

**Disclaimer: The average and maximum values (except volumes and bottom hole values) are based on the start and end averaging times.**

## 1.2 Job Event Log

Event Number	Time	Description	Comment
1	13-Jul-14 08:12:16	Start Job	Starting Job
2	09:24:52	Pause	Suspending Job
3	11:49:51	Resume	Resuming Job
4	12:16:17	Pause	Suspending Job
5	12:48:41	Resume	Resuming Job
	13:45:33	Stage 1	Pad
	14:27:54	Stage 2	Proppant Laden Fluid
	15:05:04	Stage 3	Proppant Laden Fluid
	15:26:43	Stage 4	Proppant Laden Fluid
	16:01:31	Stage 8	Spacer
	16:03:27	Stage 10	Pad
	16:42:29	Stage 11	Proppant Laden Fluid
	17:10:27	Stage 12	Proppant Laden Fluid
	17:18:26	Stage 13	Proppant Laden Fluid
	17:39:15	Stage 14	Proppant Laden Fluid
	17:59:41	Stage 15	Proppant Laden Fluid
	18:11:14	Stage 16	Proppant Laden Fluid
	18:19:21	Stage 17	Spacer
	18:20:56	Stage 19	Pad
	18:52:18	Stage 20	Proppant Laden Fluid
	19:06:41	Stage 21	Proppant Laden Fluid
	19:14:05	Stage 22	Proppant Laden Fluid

Event Number	Time	Description	Comment
	19:33:22	Stage 23	Proppant Laden Fluid
	19:52:20	Stage 24	Proppant Laden Fluid
	20:03:06	Stage 25	Proppant Laden Fluid
	20:10:44	Stage 26	Spacer
	20:12:10	Stage 28	Pad
	20:41:30	Stage 29	Proppant Laden Fluid
6	21:07:46	Pause	Suspending Job
7	21:17:53	Resume	Resuming Job
	21:37:34	Stage 30	Proppant Laden Fluid
	21:44:31	Stage 31	Proppant Laden Fluid
	22:01:46	Stage 32	Proppant Laden Fluid
	22:18:50	Stage 33	Proppant Laden Fluid
	22:28:31	Stage 34	Proppant Laden Fluid
	22:34:33	Stage 35	Spacer
	22:35:53	Stage 37	Pad
8	22:52:10	Pause	Suspending Job
9	14-Jul-14 05:29:49	Resume	Resuming Job
	05:39:55	Stage 73	Pad
	05:40:16	Stage 37	Pad
	06:00:48	Stage 38	Proppant Laden Fluid
	06:14:01	Stage 39	Proppant Laden Fluid
	06:20:24	Stage 40	Proppant Laden Fluid
	06:36:27	Stage 41	Proppant Laden Fluid
	06:51:27	Stage 42	Proppant Laden Fluid
	06:59:59	Stage 43	Proppant Laden Fluid

Event Number	Time	Description	Comment
	07:05:37	Stage 44	Spacer
	07:06:57	Stage 45	Flush
10	07:28:54	Pause	Suspending Job
11	14:48:55	Resume	Resuming Job
	14:49:02	Stage 46	Pad
12	15:02:14	Ball on Seat	Ball on Seat
13	15:02:19	Ball on Seat	Sleeve Shift
14	15:02:21	Break Formation	Break Formation
	15:18:03	Stage 47	Proppant Laden Fluid
	15:30:03	Stage 48	Proppant Laden Fluid
	15:36:12	Stage 49	Proppant Laden Fluid
	15:52:19	Stage 50	Proppant Laden Fluid
	16:08:10	Stage 51	Proppant Laden Fluid
	16:17:09	Stage 52	Proppant Laden Fluid
	16:23:22	Stage 54	Flush
	16:33:31	Stage 55	Pad
21	16:43:11	Pause	Suspending Job
22	19:55:13	Resume	Resuming Job
24	19:57:49	Pause	Suspending Job
25	19:58:02	Resume	Resuming Job
	20:27:30	Stage 56	Proppant Laden Fluid
	20:38:13	Stage 57	Proppant Laden Fluid
	20:43:41	Stage 58	Proppant Laden Fluid
	20:57:51	Stage 59	Proppant Laden Fluid
	21:11:46	Stage 60	Proppant Laden Fluid
	21:19:41	Stage 61	Proppant Laden Fluid

Event Number	Time	Description	Comment
	21:25:23	Stage 62	Spacer
	21:26:29	Stage 64	Pad
32	21:38:00	Pause	Suspending Job
33	15-Jul-14 00:40:19	Resume	Resuming Job
35	00:42:19	Pause	Suspending Job
36	00:45:14	Resume	Resuming Job
	01:08:46	Stage 65	Proppant Laden Fluid
	01:19:30	Stage 66	Proppant Laden Fluid
	01:25:00	Stage 67	Proppant Laden Fluid
	01:39:25	Stage 68	Proppant Laden Fluid
	01:53:34	Stage 69	Proppant Laden Fluid
	02:01:40	Stage 70	Proppant Laden Fluid
	02:07:08	Stage 71	Spacer
	02:08:22	Stage 72	Flush
	02:08:34	Stage 73	Pad
43	02:17:44	Pause	Suspending Job
44	06:41:41	Resume	Resuming Job
46	06:50:50	Break Formation	Break Formation @ 4890 psi, 15.1 bpm
47	06:51:14	Other	Sleeve shift here at displacement
48	06:51:33	Other	Pressure lined out here @ 4590 psi
	07:04:27	Stage 74	Proppant Laden Fluid
49	07:13:10	Other	Start Crosslinking here
	07:13:53	Stage 75	Proppant Laden Fluid
	07:18:40	Stage 76	Proppant Laden Fluid
51	07:21:46	Other	BE-7 Pump malfunctioning, threw pump in manual and sped up the concentration to help it get primed. Strapping BE-7 frequently to check accuracy

Event Number	Time	Description	Comment
	07:31:15	Stage 77	Proppant Laden Fluid
53	07:40:05	Other	Lost two pumps due to engine failures, will investigate issue after interval is complete
	07:43:45	Stage 78	Proppant Laden Fluid
55	07:48:27	Other	Oilperm was shut off with FR Chemicals by accident and was just turned on
	07:50:34	Stage 79	Proppant Laden Fluid
	07:54:59	Stage 80	Spacer
	07:56:10	Stage 82	Pad
56	07:56:10	Other	Drop Ball for next interval
57	08:02:38	ISIP	ISIP = 3931 psi, FG = 0.98 psi / ft
58	08:06:35	Pause	Suspending Job
59	16-Jul-14 16:32:55	Resume	Resuming Job
	17:02:15	Stage 83	Proppant Laden Fluid
	17:10:45	Stage 84	Proppant Laden Fluid
	17:15:05	Stage 85	Proppant Laden Fluid
	17:26:21	Stage 86	Proppant Laden Fluid
	17:37:24	Stage 87	Proppant Laden Fluid
	17:43:41	Stage 88	Proppant Laden Fluid
	17:47:54	Stage 89	Spacer
	17:48:53	Stage 91	Pad
	18:08:09	Stage 92	Proppant Laden Fluid
	18:16:52	Stage 93	Proppant Laden Fluid
	18:20:59	Stage 94	Proppant Laden Fluid
	18:31:49	Stage 95	Proppant Laden Fluid
	18:43:04	Stage 96	Proppant Laden Fluid
	18:50:12	Stage 97	Proppant Laden Fluid

Event Number	Time	Description	Comment
	18:54:10	Stage 98	Spacer
	18:55:17	Stage 100	Pad
	19:14:11	Stage 101	Proppant Laden Fluid
	19:22:22	Stage 102	Proppant Laden Fluid
	19:26:34	Stage 103	Proppant Laden Fluid
	19:37:31	Stage 104	Proppant Laden Fluid
	19:48:17	Stage 105	Proppant Laden Fluid
	19:54:23	Stage 106	Proppant Laden Fluid
	19:58:36	Stage 107	Spacer
	19:59:41	Stage 109	Pad
	20:18:15	Stage 110	Proppant Laden Fluid
	20:26:27	Stage 111	Proppant Laden Fluid
	20:30:39	Stage 112	Proppant Laden Fluid
	20:41:37	Stage 113	Proppant Laden Fluid
	20:52:24	Stage 114	Proppant Laden Fluid
	20:58:30	Stage 115	Proppant Laden Fluid
	21:03:11	Stage 116	Spacer
	21:04:16	Stage 117	Flush
	21:04:18	Stage 118	Pad
	21:22:39	Stage 119	Proppant Laden Fluid
	21:30:49	Stage 120	Proppant Laden Fluid
	21:35:01	Stage 121	Proppant Laden Fluid
	21:45:58	Stage 122	Proppant Laden Fluid
	21:57:25	Stage 123	Proppant Laden Fluid

Event Number	Time	Description	Comment
	22:03:31	Stage 124	Proppant Laden Fluid
	22:07:40	Stage 125	Spacer
	22:08:42	Stage 127	Pad
	22:27:00	Stage 128	Proppant Laden Fluid
	22:35:09	Stage 129	Proppant Laden Fluid
	22:39:20	Stage 130	Proppant Laden Fluid
	22:50:12	Stage 131	Proppant Laden Fluid
	23:00:53	Stage 132	Proppant Laden Fluid
	23:06:56	Stage 133	Proppant Laden Fluid
	23:11:22	Stage 134	Spacer
	23:12:24	Stage 136	Pad
	23:30:45	Stage 137	Proppant Laden Fluid
	23:38:53	Stage 138	Proppant Laden Fluid
	23:43:04	Stage 139	Proppant Laden Fluid
	23:53:59	Stage 140	Proppant Laden Fluid
	17-Jul-14 00:04:39	Stage 141	Proppant Laden Fluid
	00:10:41	Stage 142	Proppant Laden Fluid
	00:15:10	Stage 143	Spacer
	00:16:14	Stage 145	Pad
88	00:26:43	Pause	Suspending Job
89	08:35:18	Resume	Resuming Job
91	08:42:25	Pressure Test	Pressure Test
92	08:48:38	Ball on Seat	Ball on Seat
93	08:48:47	Shift Tool Lower	Shift Tool Lower

Event Number	Time	Description	Comment
	08:59:33	Stage 146	Proppant Laden Fluid
94	09:06:51	Other	Swap to gel here
	09:07:51	Stage 147	Proppant Laden Fluid
	09:12:38	Stage 148	Proppant Laden Fluid
	09:23:45	Stage 149	Proppant Laden Fluid
	09:34:40	Stage 150	Proppant Laden Fluid
	09:40:51	Stage 151	Proppant Laden Fluid
	09:45:01	Stage 152	Spacer
	09:46:04	Stage 154	Pad
98	09:54:46	Ball on Seat	Ball on Seat
99	09:54:54	Shift Tool Lower	Sleeve shift peak
	10:04:47	Stage 155	Proppant Laden Fluid
	10:12:42	Stage 156	Proppant Laden Fluid
	10:17:18	Stage 157	Proppant Laden Fluid
	10:27:51	Stage 158	Proppant Laden Fluid
	10:38:09	Stage 159	Proppant Laden Fluid
	10:44:01	Stage 160	Proppant Laden Fluid
	10:47:56	Stage 161	Spacer
	10:48:56	Stage 163	Pad
104	10:54:37	Other	Drop rate for ball hit
105	10:56:47	Ball on Seat	Ball on Seat
106	10:56:55	Shift Tool Lower	Shift Sleeve Max
	11:06:37	Stage 164	Proppant Laden Fluid
	11:14:29	Stage 165	Proppant Laden Fluid

Event Number	Time	Description	Comment
	11:18:31	Stage 166	Proppant Laden Fluid
	11:29:00	Stage 167	Proppant Laden Fluid
109	11:36:45	Other	Lost CAT-3 chemical temporarily due to chemical upright running dry b/c transfer pump malfunctioned. swapped transfer pumps and resumed concentration
	11:39:15	Stage 168	Proppant Laden Fluid
	11:45:01	Stage 169	Proppant Laden Fluid
	11:49:14	Stage 170	Spacer
	11:50:12	Stage 172	Pad
112	11:57:26	Ball on Seat	Ball on Seat
113	11:57:31	Shift Tool Lower	Shift Sleeve Peak
	12:07:15	Stage 173	Proppant Laden Fluid
	12:15:07	Stage 174	Proppant Laden Fluid
	12:19:09	Stage 175	Proppant Laden Fluid
	12:29:37	Stage 176	Proppant Laden Fluid
117	12:39:28	Other	Oil cooler exploded on grizzly pump. Take pump offline
	12:40:09	Stage 177	Proppant Laden Fluid
	12:46:16	Stage 178	Proppant Laden Fluid
	12:50:20	Stage 179	Spacer
	12:51:15	Stage 181	Pad
119	12:56:55	Other	Drop rate for ball hit
120	12:58:54	Ball on Seat	Ball on Seat
121	12:58:58	Shift Tool Lower	Shift Sleeve Peak
	13:08:43	Stage 182	Proppant Laden Fluid
	13:16:54	Stage 183	Proppant Laden Fluid
	13:20:59	Stage 184	Proppant Laden Fluid

Event Number	Time	Description	Comment
	13:31:32	Stage 185	Proppant Laden Fluid
	13:41:52	Stage 186	Proppant Laden Fluid
	13:47:44	Stage 187	Proppant Laden Fluid
	13:51:46	Stage 188	Spacer
	13:52:48	Stage 190	Pad
126	13:58:25	Other	Drop rate for ball hit
127	14:01:00	Ball on Seat	Ball on Seat
128	14:01:04	Shift Tool Lower	Shift Sleeve Peak
	14:11:09	Stage 191	Proppant Laden Fluid
	14:19:05	Stage 192	Proppant Laden Fluid
	14:23:08	Stage 193	Proppant Laden Fluid
	14:33:36	Stage 194	Proppant Laden Fluid
	14:43:51	Stage 195	Proppant Laden Fluid
	14:49:40	Stage 196	Proppant Laden Fluid
	14:53:45	Stage 197	Spacer
	14:54:41	Stage 198	Flush
	14:55:48	Stage 199	Pad
132	15:01:09	Other	Drop rate for ball hit
134	15:03:51	Ball on Seat	Ball on Seat
135	15:03:55	Shift Tool Lower	Shift Sleeve Peak
	15:14:39	Stage 200	Proppant Laden Fluid
	15:22:28	Stage 201	Proppant Laden Fluid
	15:26:28	Stage 202	Proppant Laden Fluid
	15:36:54	Stage 203	Proppant Laden Fluid

Event Number	Time	Description	Comment
	15:47:05	Stage 204	Proppant Laden Fluid
	15:52:52	Stage 205	Proppant Laden Fluid
	15:56:49	Stage 206	Spacer
	15:57:48	Stage 208	Pad
	16:17:23	Stage 209	Proppant Laden Fluid
	16:25:12	Stage 210	Proppant Laden Fluid
	16:29:11	Stage 211	Proppant Laden Fluid
	16:39:35	Stage 212	Proppant Laden Fluid
	16:49:45	Stage 213	Proppant Laden Fluid
	16:55:37	Stage 214	Proppant Laden Fluid
	16:59:23	Stage 215	Spacer
	17:00:20	Stage 217	Pad
	17:19:03	Stage 218	Proppant Laden Fluid
	17:26:51	Stage 219	Proppant Laden Fluid
	17:30:54	Stage 220	Proppant Laden Fluid
	17:41:32	Stage 221	Proppant Laden Fluid
	17:51:44	Stage 222	Proppant Laden Fluid
	17:57:31	Stage 223	Proppant Laden Fluid
	18:01:12	Stage 224	Spacer
	18:02:08	Stage 226	Pad
	18:25:18	Stage 227	Proppant Laden Fluid
	18:33:12	Stage 228	Proppant Laden Fluid
	18:37:14	Stage 229	Proppant Laden Fluid
	18:47:40	Stage 230	Proppant Laden Fluid

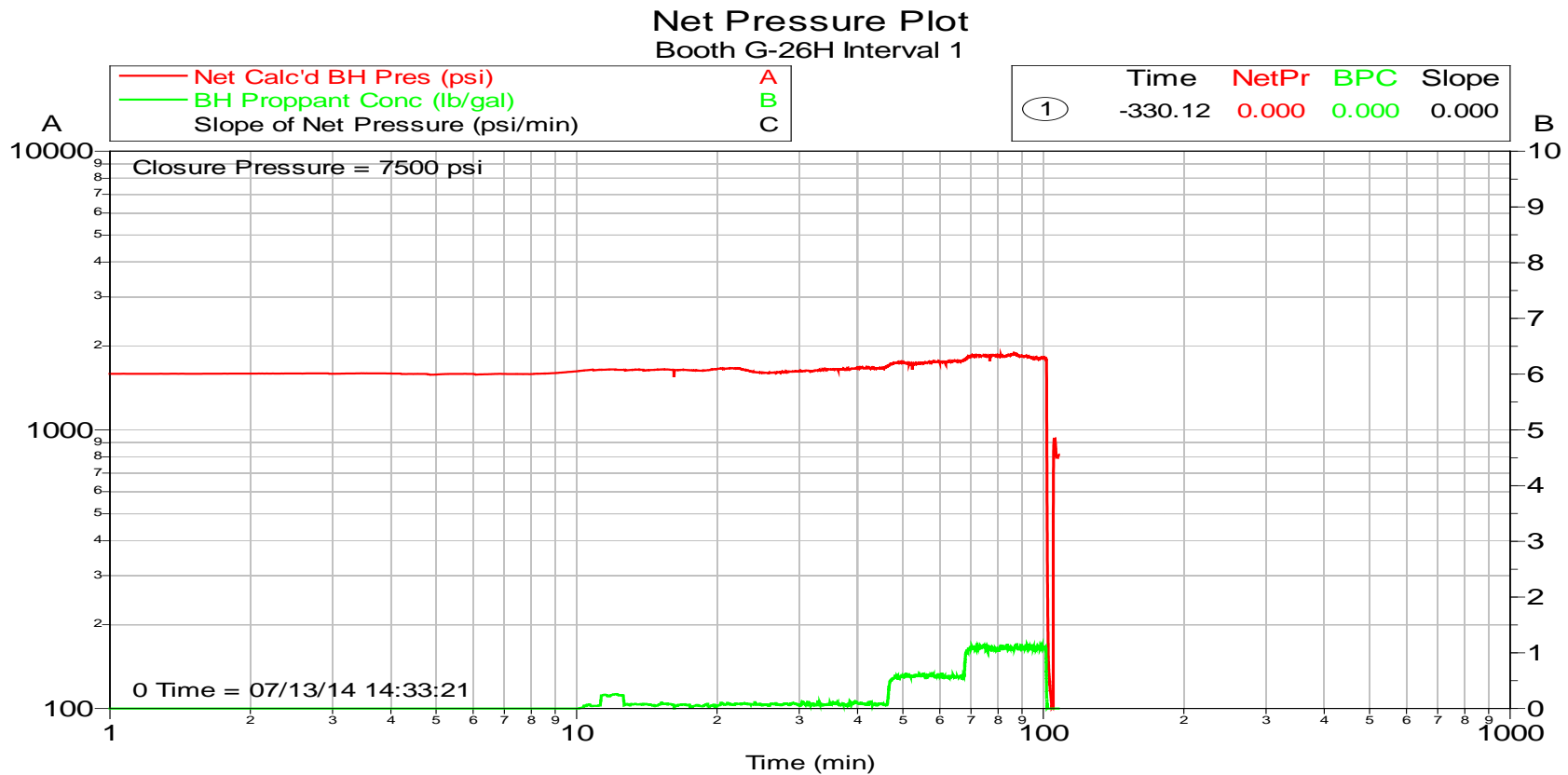
Event Number	Time	Description	Comment
	18:57:56	Stage 231	Proppant Laden Fluid
	19:03:42	Stage 232	Proppant Laden Fluid
	19:07:45	Stage 233	Spacer
	19:08:41	Stage 235	Pad
150	19:17:41	Pause	Suspending Job
151	18-Jul-14 01:06:38	Resume	Resuming Job
	02:28:11	Stage 236	Proppant Laden Fluid
	02:35:58	Stage 237	Proppant Laden Fluid
	02:39:58	Stage 238	Proppant Laden Fluid
	02:50:22	Stage 239	Proppant Laden Fluid
	03:00:34	Stage 240	Proppant Laden Fluid
	03:06:20	Stage 241	Proppant Laden Fluid
	03:10:45	Stage 242	Spacer
	03:11:44	Stage 244	Pad
	03:37:07	Stage 245	Proppant Laden Fluid
	03:44:56	Stage 246	Proppant Laden Fluid
	03:48:55	Stage 247	Proppant Laden Fluid
	03:59:21	Stage 248	Proppant Laden Fluid
159	04:03:52	Other	Actuator on Vicon NF malfunctioned and was not feeding chemical to pump. Manually opened transport valve and chemical returned to pump
	04:09:33	Stage 249	Proppant Laden Fluid
	04:15:20	Stage 250	Proppant Laden Fluid
	04:19:44	Stage 251	Spacer
	04:20:41	Stage 253	Pad
162	04:20:42	Other	Drop Ball

Event Number	Time	Description	Comment
163	04:25:20	Other	Shut down before shifting sleeve to strap sand on location
164	04:25:37	ISIP	ISIP = 3909 psi , FG = 0.98 psi / ft
165	04:28:05	Pause	Suspending Job
166	04:42:20	Resume	Resuming Job
167	04:42:48	Ball on Seat	Ball on Seat
168	04:42:55	Shift Tool Lower	Shift Sleeve Peak
	04:53:35	Stage 254	Proppant Laden Fluid
	05:01:21	Stage 255	Proppant Laden Fluid
	05:05:20	Stage 256	Proppant Laden Fluid
	05:15:42	Stage 257	Proppant Laden Fluid
	05:25:53	Stage 258	Proppant Laden Fluid
	05:31:39	Stage 259	Proppant Laden Fluid
	05:36:30	Stage 260	Spacer
	05:37:27	Stage 262	Pad
173	05:43:15	Other	Drop rate for ball to hit
174	05:47:17	Ball on Seat	Ball on Seat
175	05:47:24	Shift Tool Lower	Shift Sleeve Peak
	05:56:50	Stage 263	Proppant Laden Fluid
	06:04:37	Stage 264	Proppant Laden Fluid
	06:08:36	Stage 265	Proppant Laden Fluid
	06:19:00	Stage 266	Proppant Laden Fluid
	06:29:12	Stage 267	Proppant Laden Fluid
	06:35:07	Stage 268	Proppant Laden Fluid
	06:41:08	Stage 270	Flush
180	06:42:30	Other	Drop rate, blender lost tub, dropping rate.
181	06:44:17	Other	Cut all chemicals except Biocide here, per customer

Event Number	Time	Description	Comment
182	06:49:11	ISIP	ISIP = 3875 psi, FG = 0.976 psi / ft
183	06:49:20	Other	Well complete. Pad Complete. Crew rigging down
184	07:13:02	End Job	Ending Job

## 2.0 ATTACHMENTS

## 2.1 Net Pressure Plot - Booth G-26H Interval 1

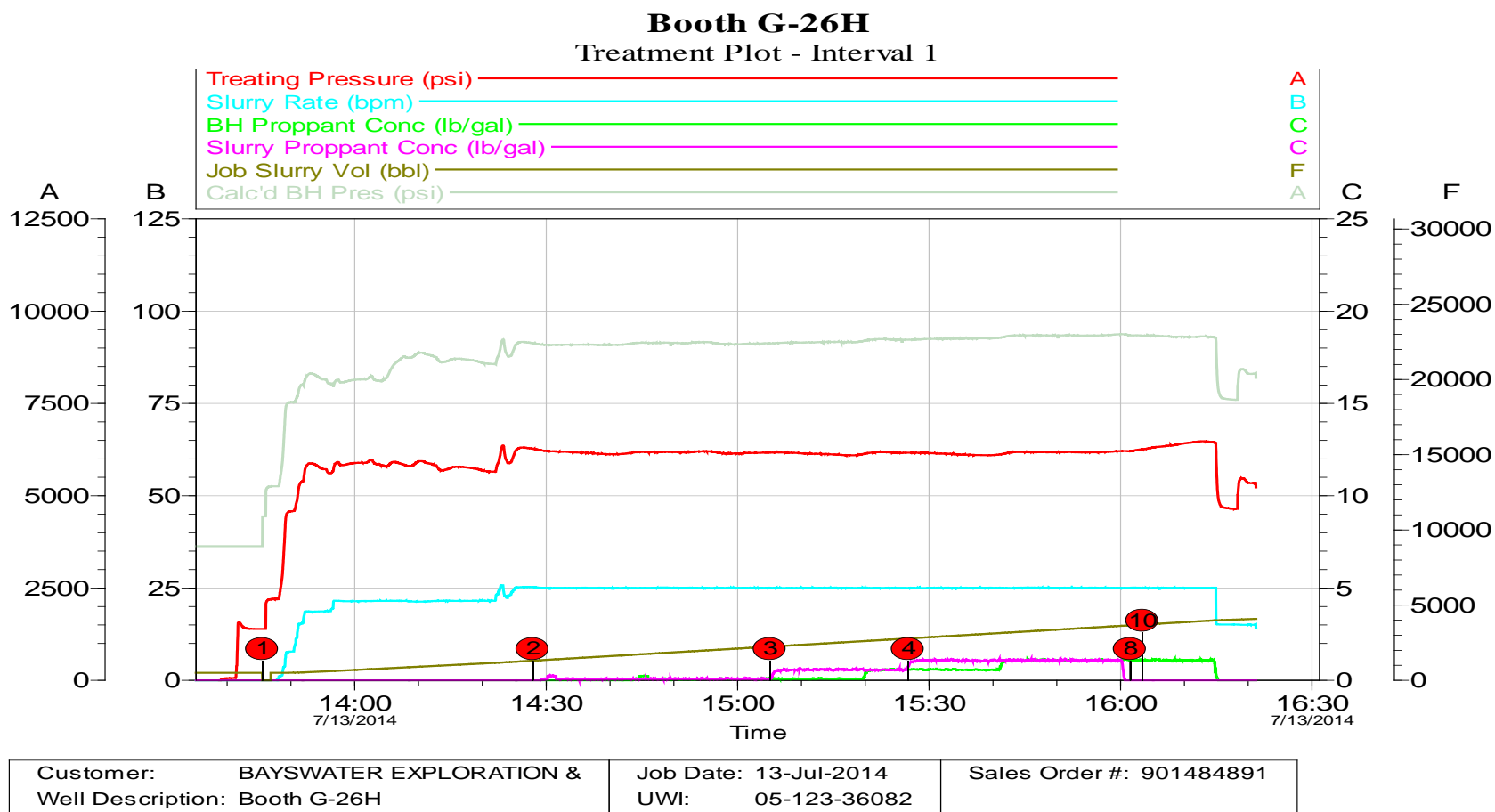


Customer: BAYSWATER EXPLORATION &  
Well Description: Booth G-26H

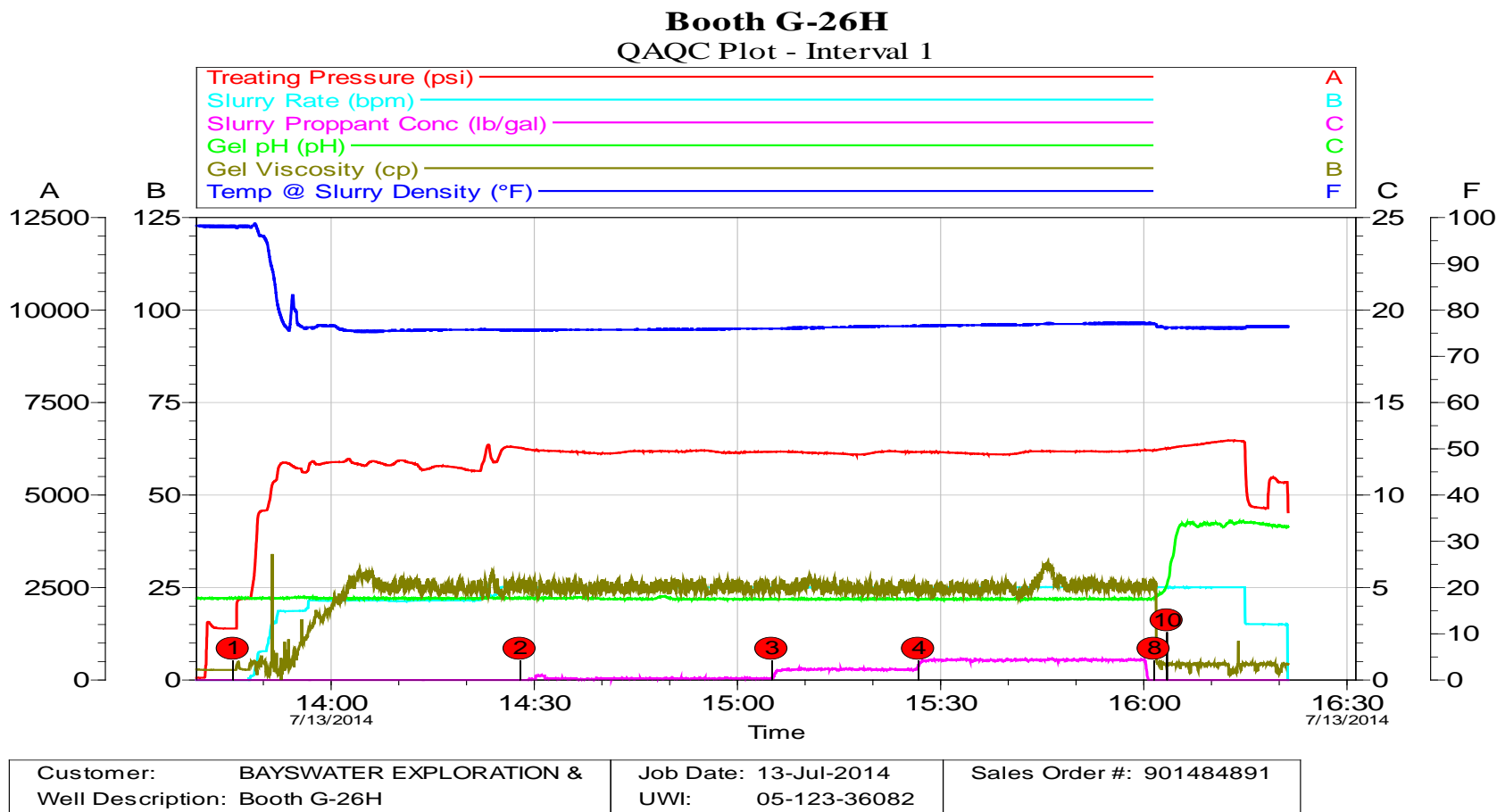
Job Date: 13-Jul-2014  
UWI: 05-123-36082

Sales Order #: 901484891

## 2.2 Booth G-26H - Treatment Plot - Interval 1

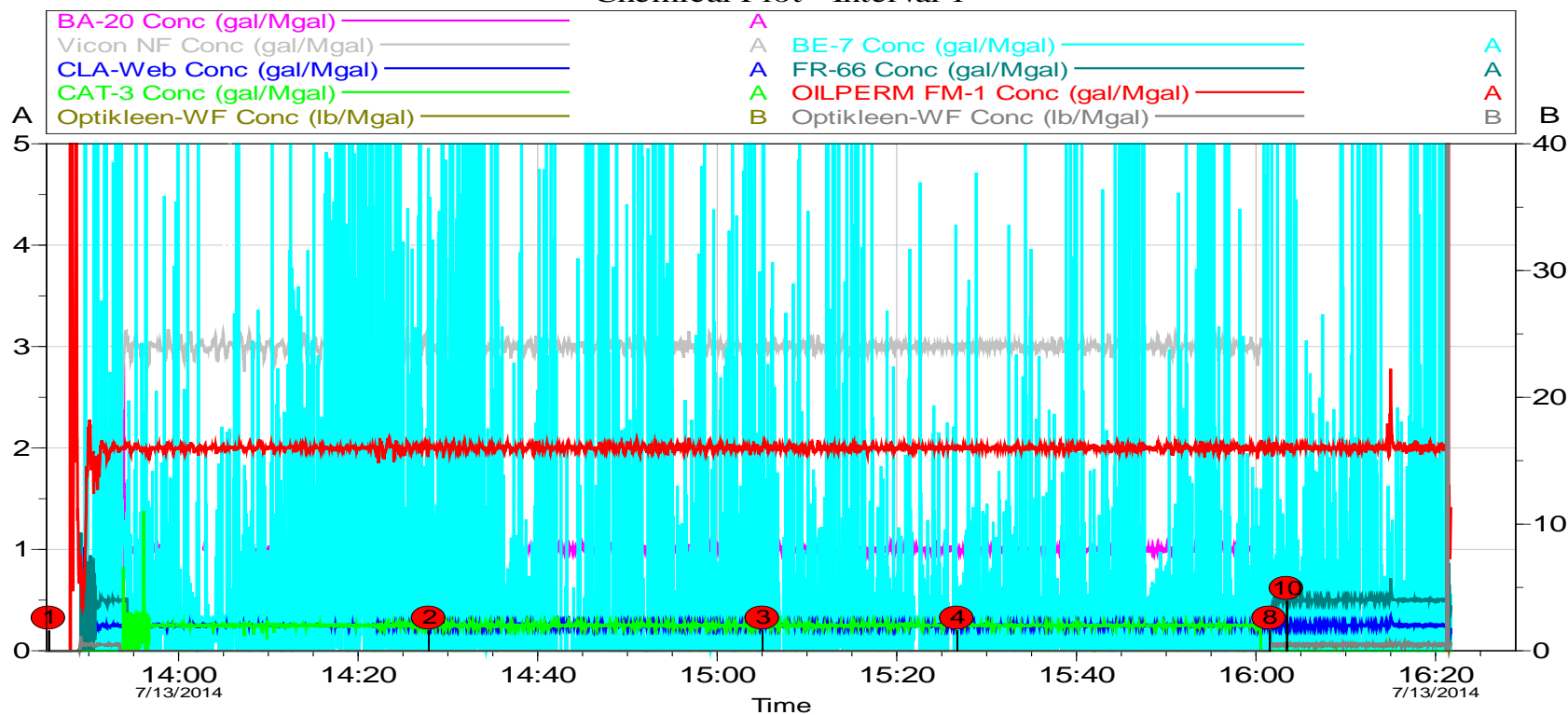


## 2.3 Booth G-26H - QAQC Plot - Interval 1



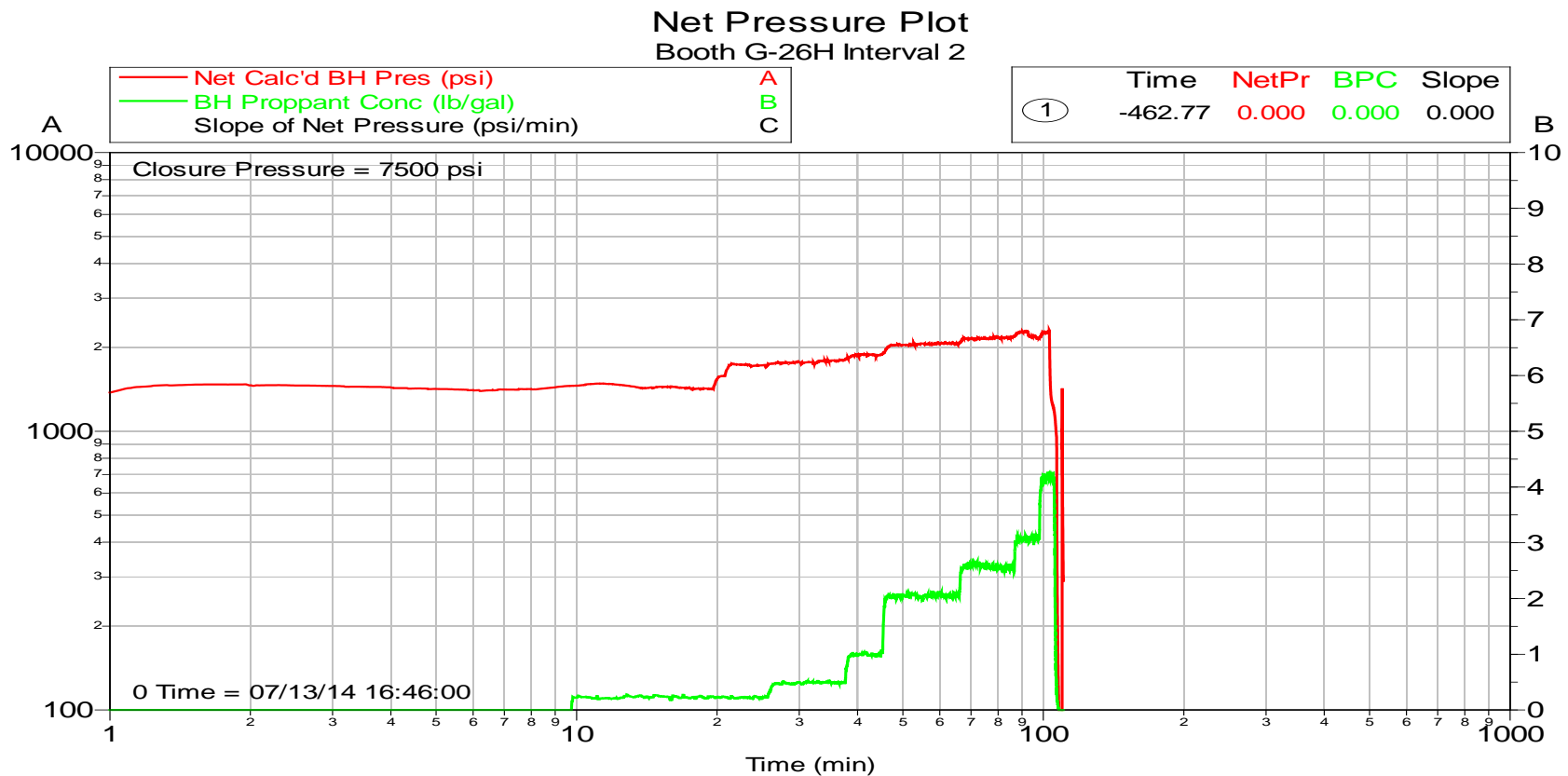
## 2.4 Booth G-26H - Chemical Plot - Interval 1

**Booth G-26H**  
Chemical Plot - Interval 1



Customer: BAYSWATER EXPLORATION &	Job Date: 13-Jul-2014	Sales Order #: 901484891
Well Description: Booth G-26H	UWI: 05-123-36082	

## 2.5 Net Pressure Plot - Booth G-26H Interval 2

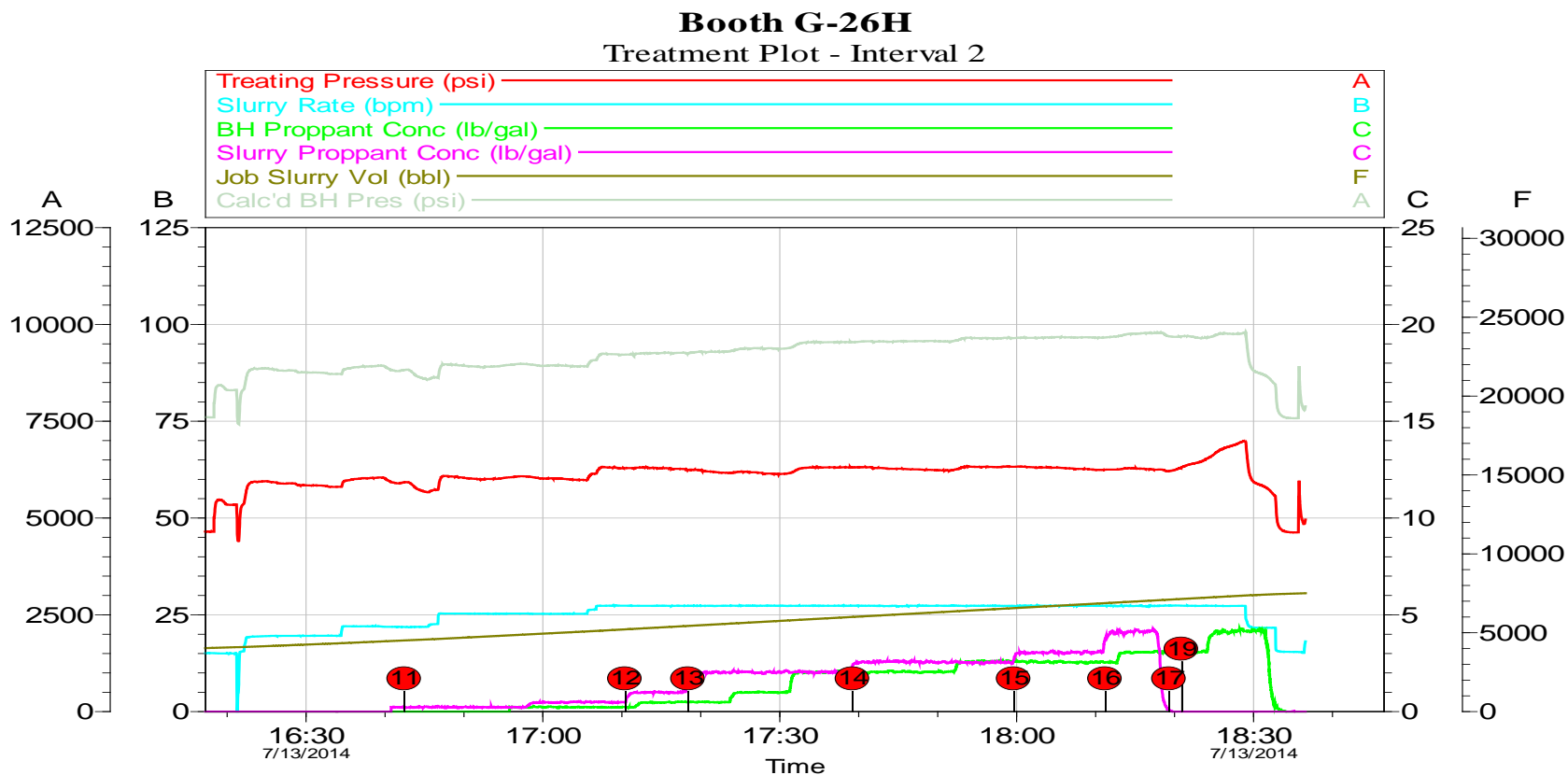


Customer: BAYSWATER EXPLORATION &  
Well Description: Booth G-26H

Job Date: 13-Jul-2014  
UWI: 05-123-36082

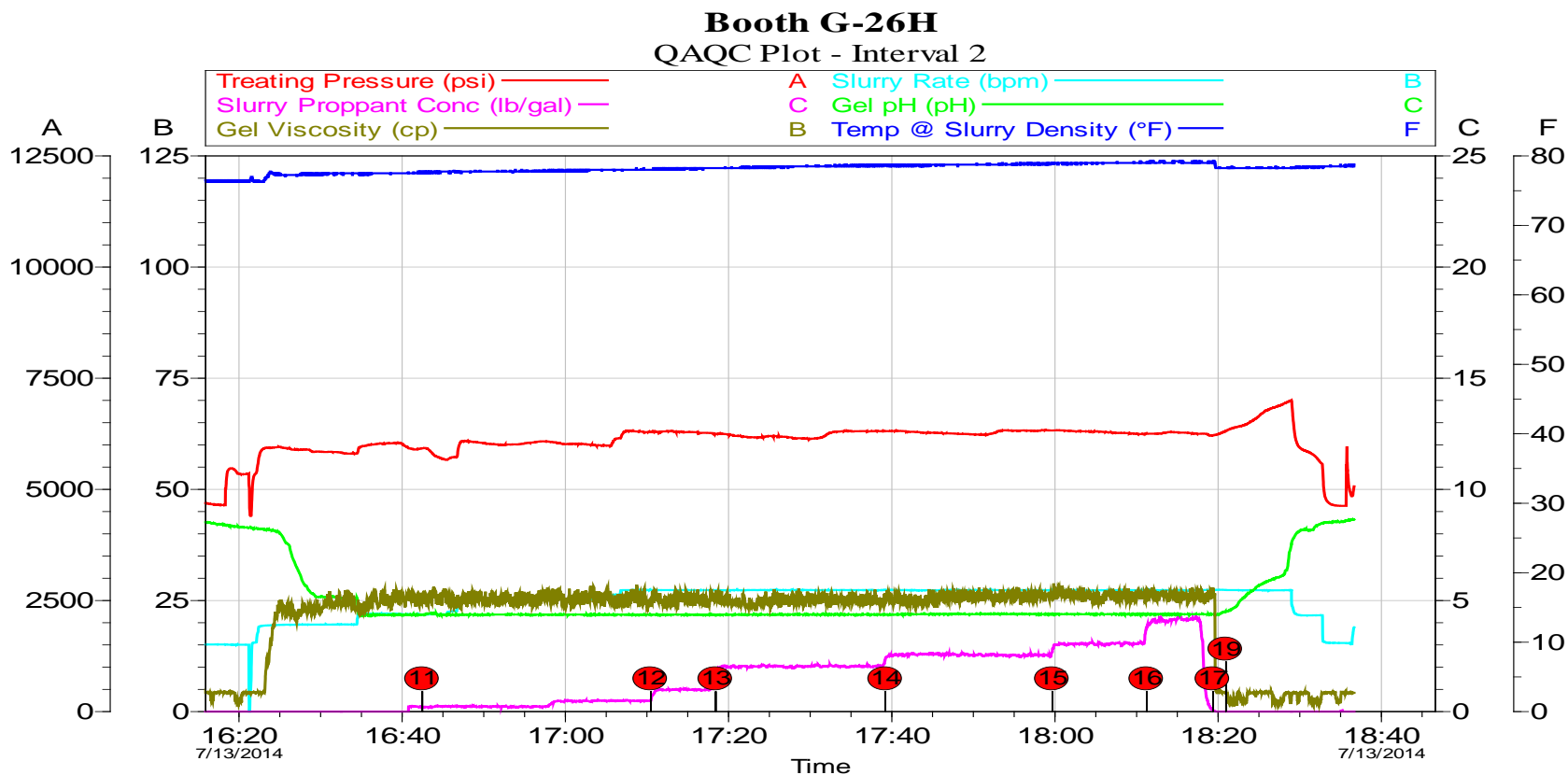
Sales Order #: 901484891

## 2.6 Booth G-26H - Treatment Plot - Interval 2



Customer: BAYSWATER EXPLORATION &	Job Date: 13-Jul-2014	Sales Order #: 901484891
Well Description: Booth G-26H	UWI: 05-123-36082	

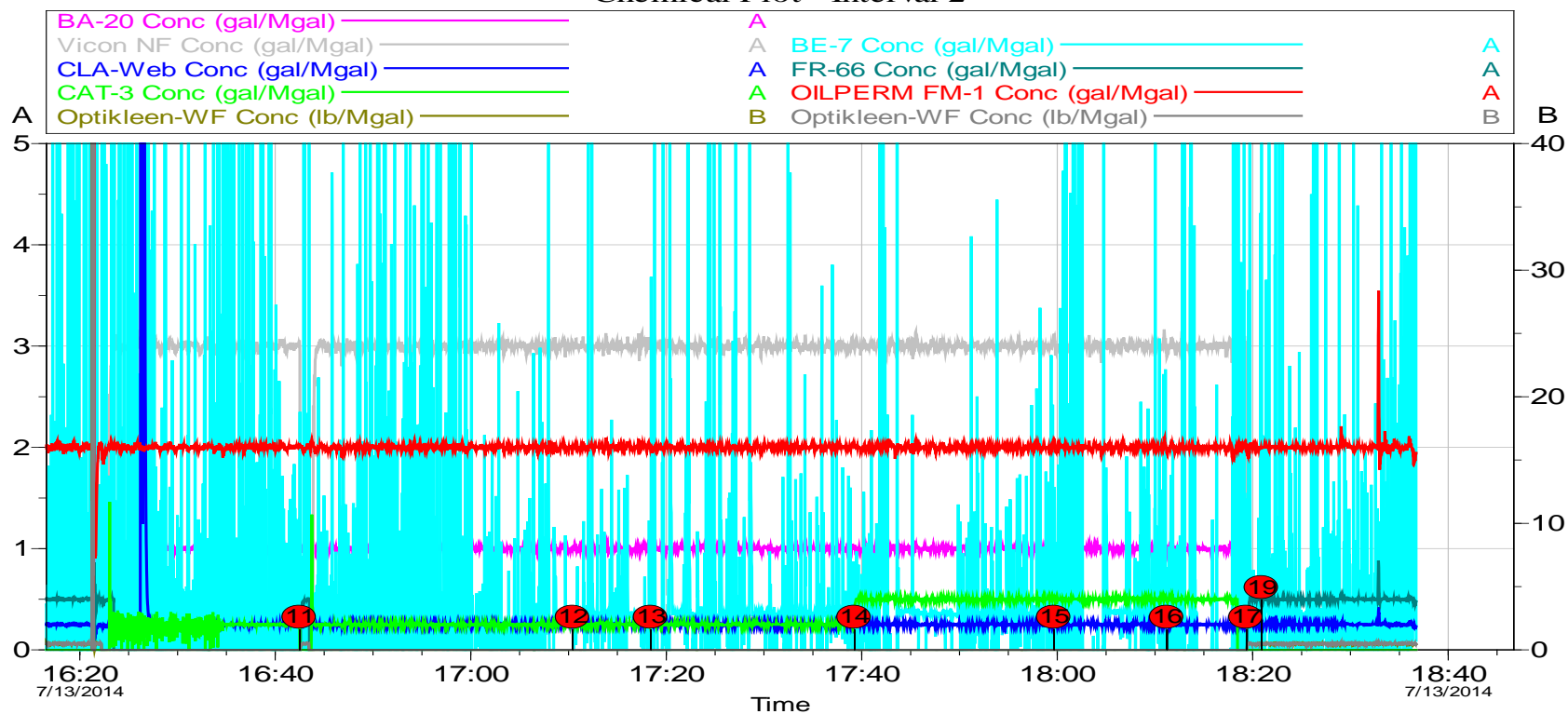
## 2.7 Booth G-26H - QAQC Plot - Interval 2



Customer: BAYSWATER EXPLORATION &	Job Date: 13-Jul-2014	Sales Order #: 901484891
Well Description: Booth G-26H	UWI: 05-123-36082	

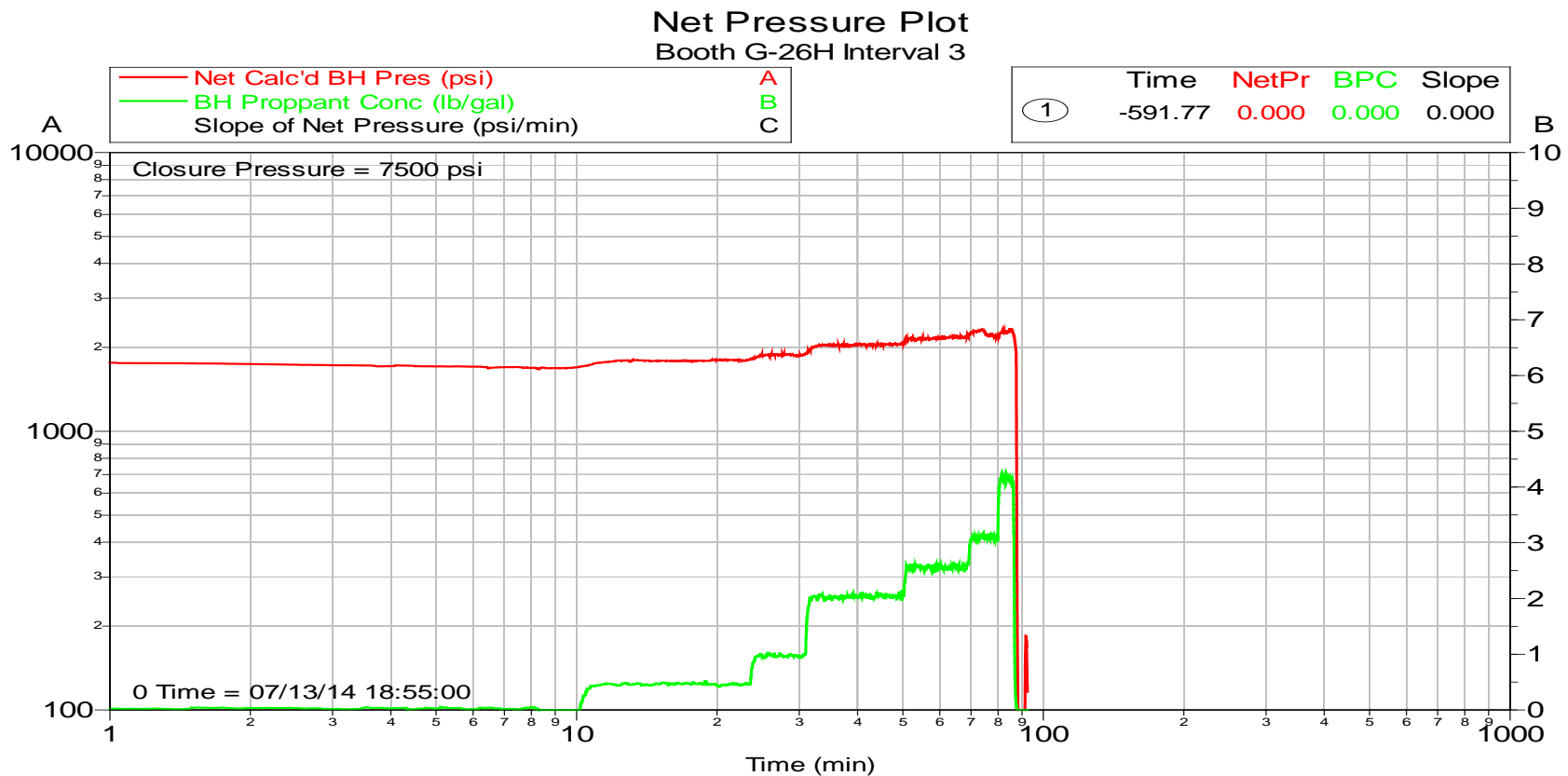
## 2.8 Booth G-26H - Chemical Plot - Interval 2

**Booth G-26H**  
Chemical Plot - Interval 2



Customer: BAYSWATER EXPLORATION &	Job Date: 13-Jul-2014	Sales Order #: 901484891
Well Description: Booth G-26H	UWI: 05-123-36082	

## 2.9 Net Pressure Plot - Booth G-26H Interval 3

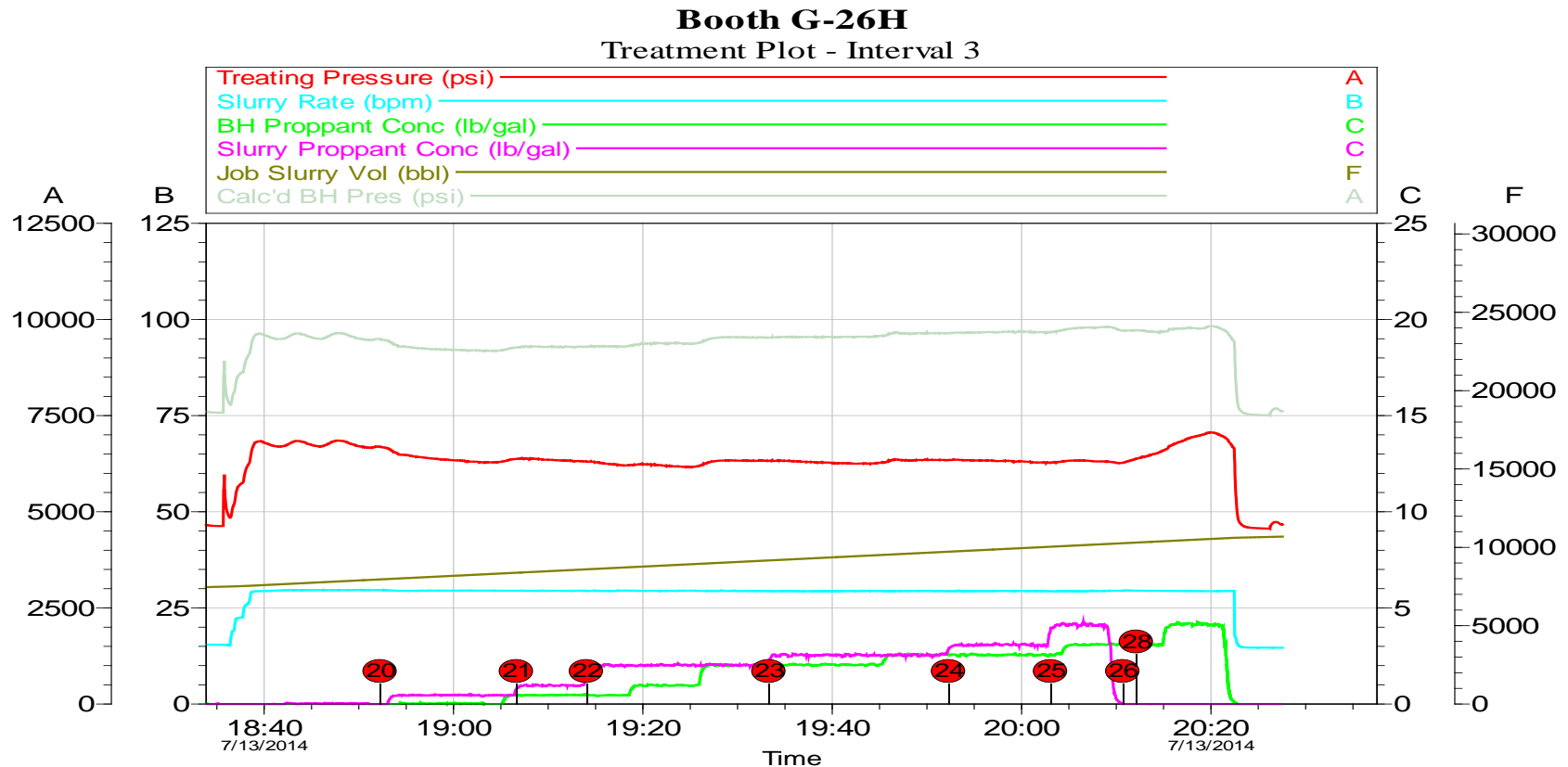


Customer: BAYSWATER EXPLORATION &  
Well Description: Booth G-26H

Job Date: 13-Jul-2014  
UWI: 05-123-36082

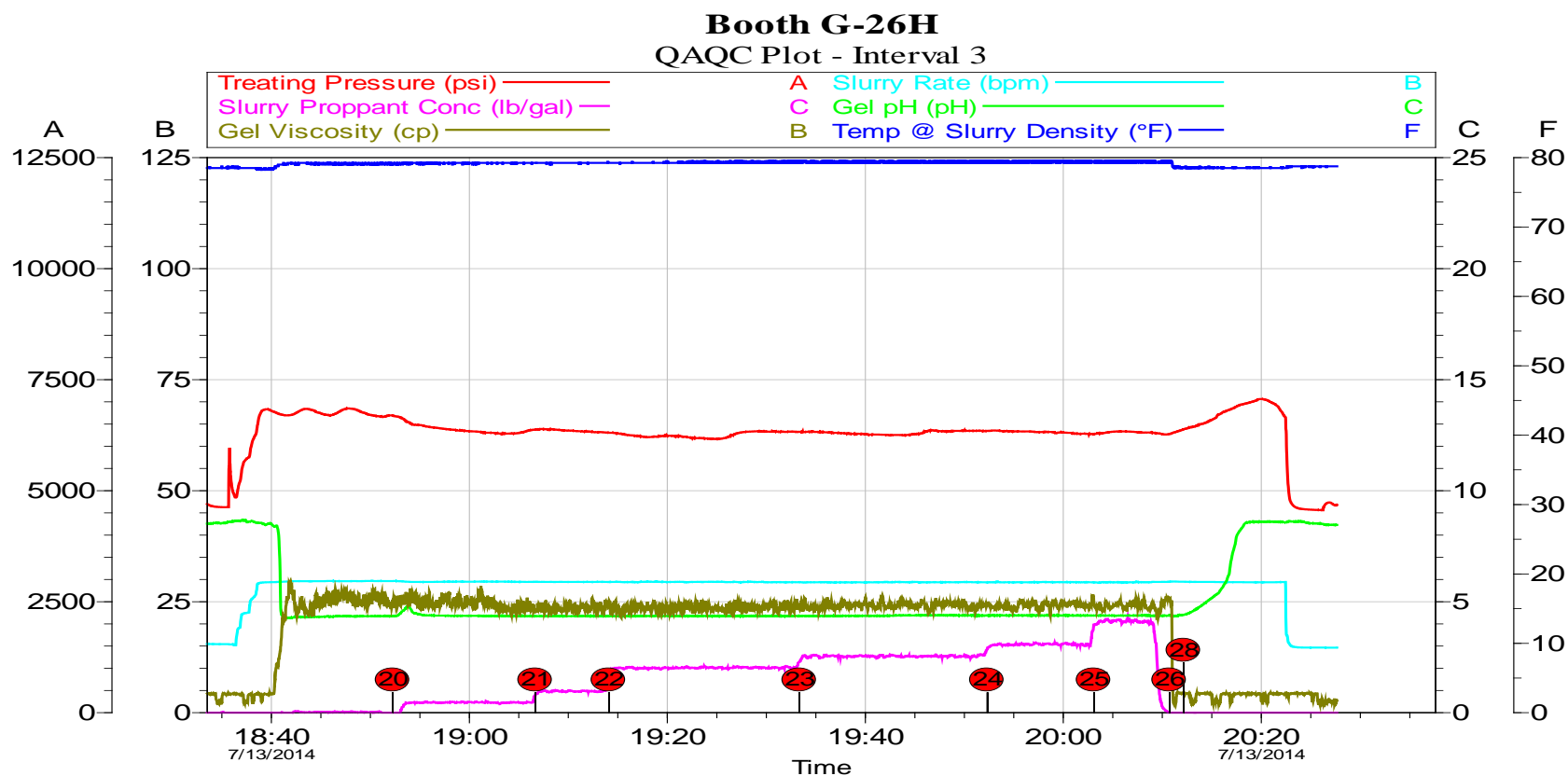
Sales Order #: 901484891

## 2.10 Booth G-26H - Treatment Plot - Interval 3



Customer: BAYSWATER EXPLORATION &	Job Date: 13-Jul-2014	Sales Order #: 901484891
Well Description: Booth G-26H	UWI: 05-123-36082	

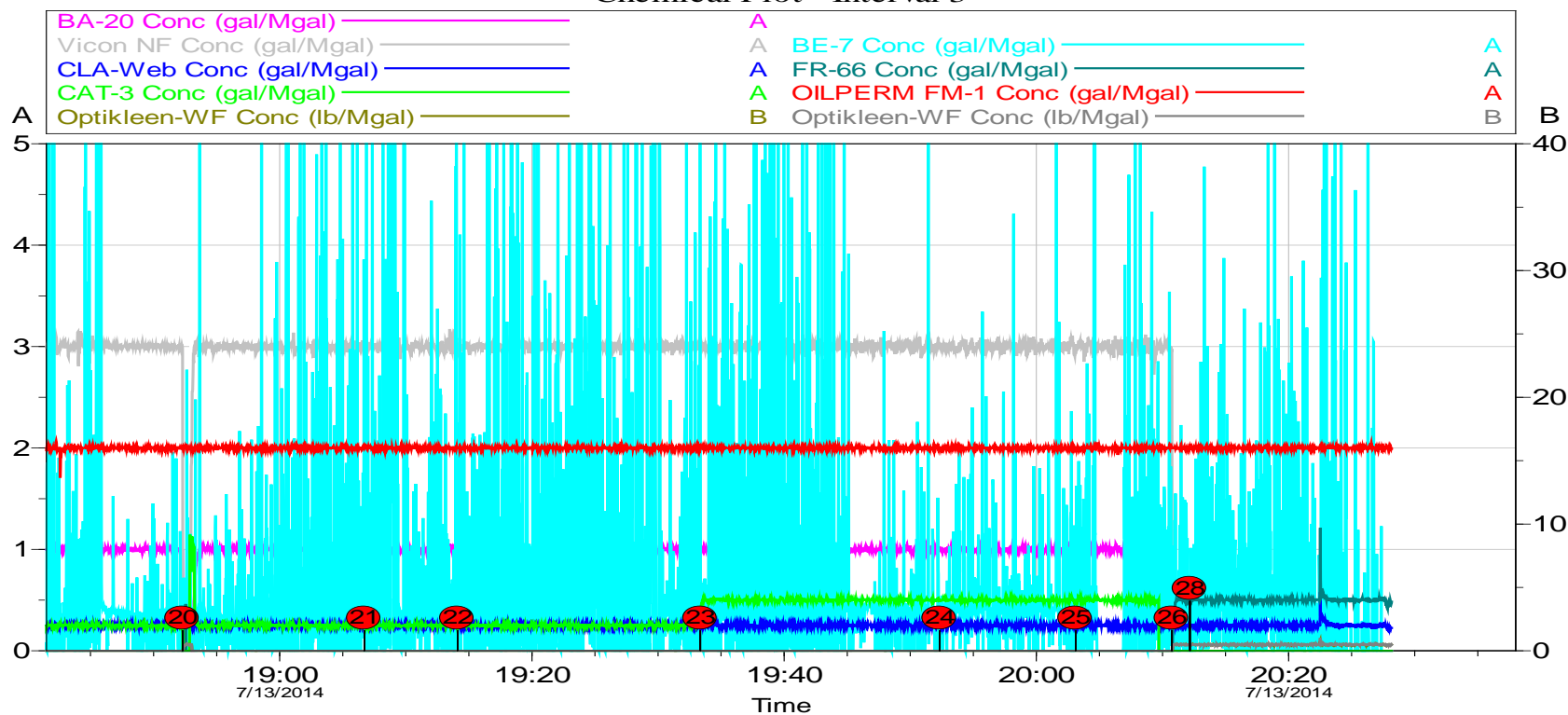
## 2.11 Booth G-26H - QAQC Plot - Interval 3



Customer: BAYSWATER EXPLORATION &	Job Date: 13-Jul-2014	Sales Order #: 901484891
Well Description: Booth G-26H	UWI: 05-123-36082	

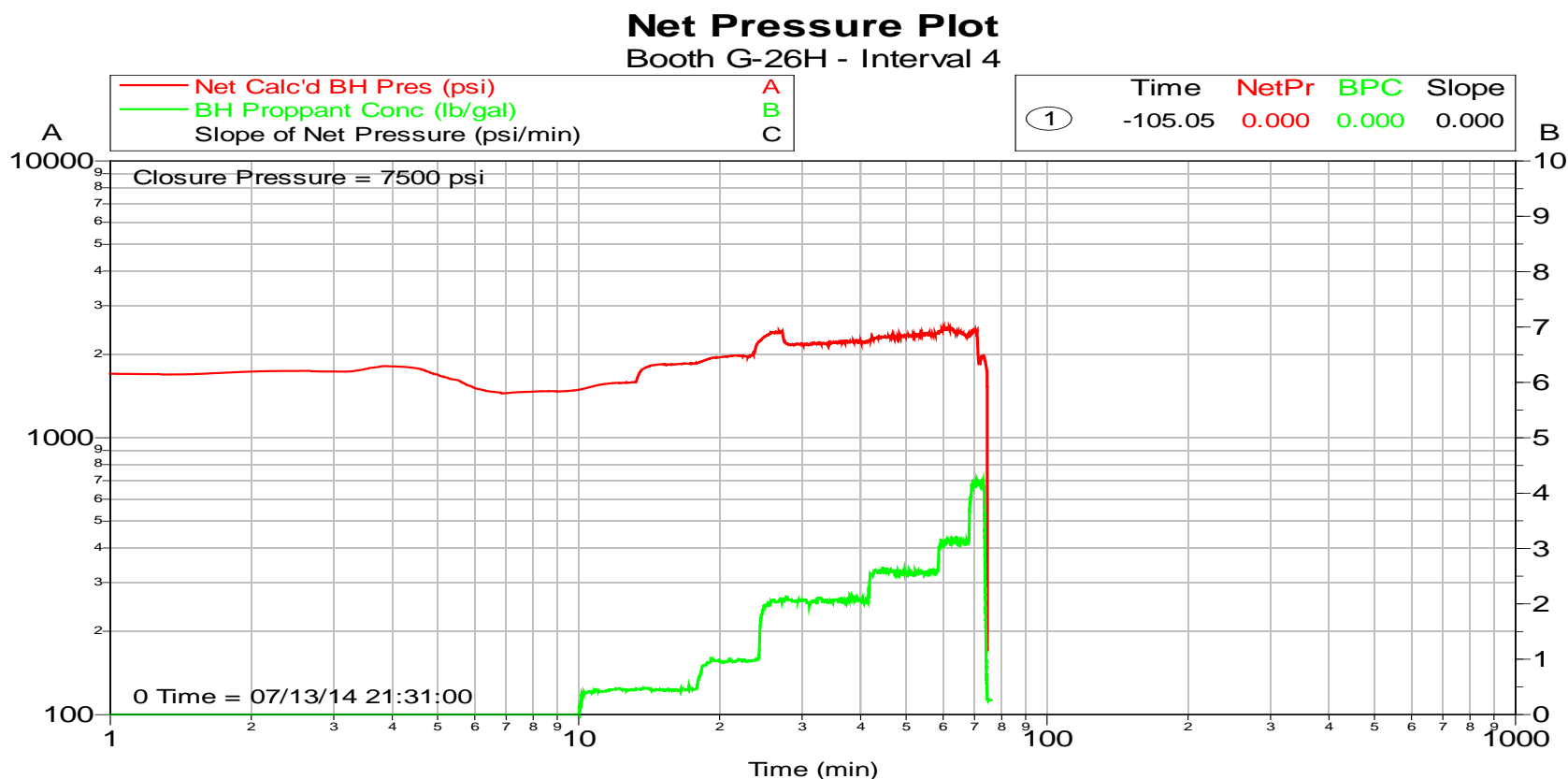
## 2.12 Booth G-26H - Chemical Plot - Interval 3

**Booth G-26H**  
Chemical Plot - Interval 3



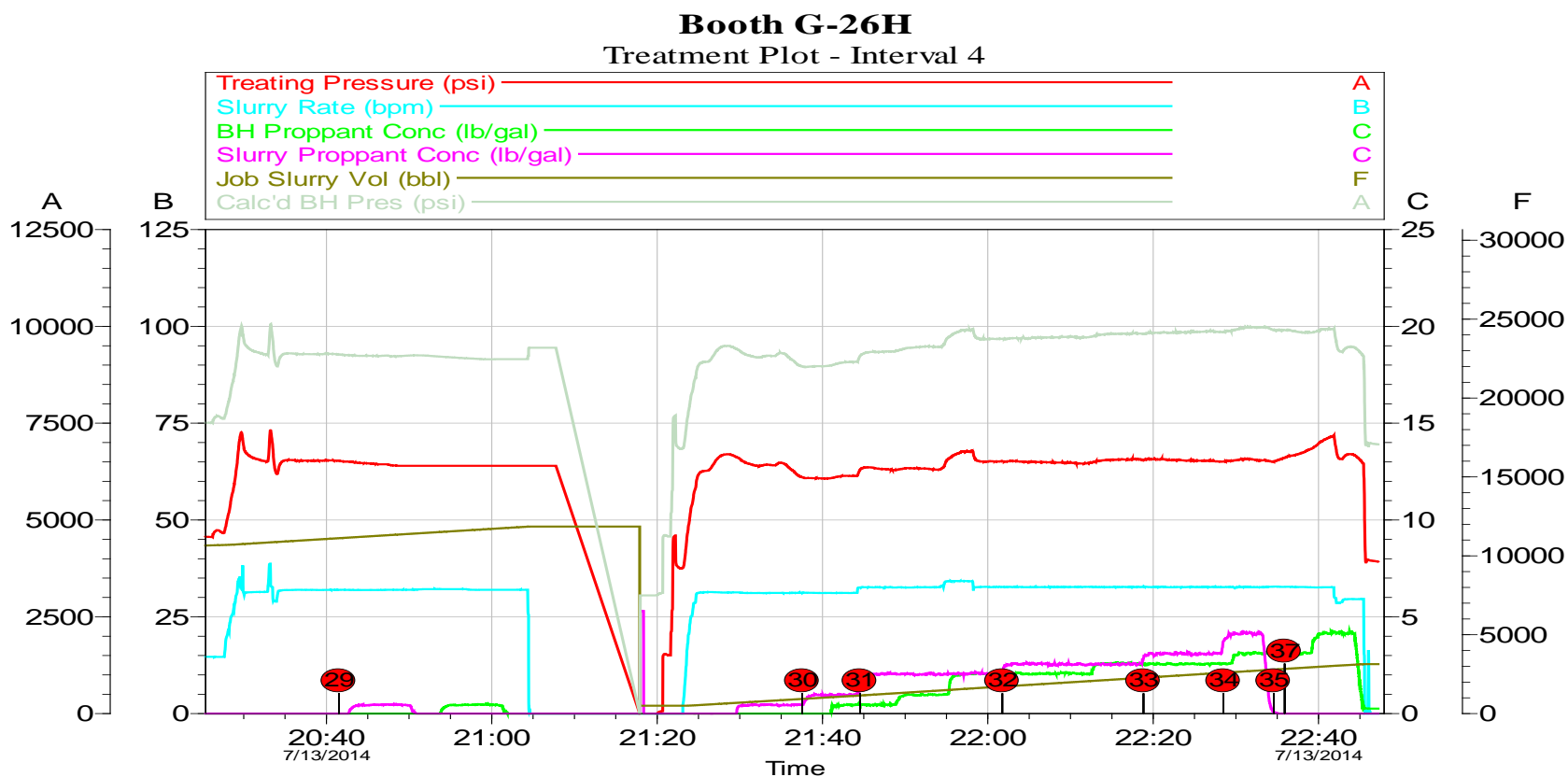
Customer: BAYSWATER EXPLORATION &	Job Date: 13-Jul-2014	Sales Order #: 901484891
Well Description: Booth G-26H	UWI: 05-123-36082	

## 2.13 Net Pressure Plot - Booth G-26H - Interval 4



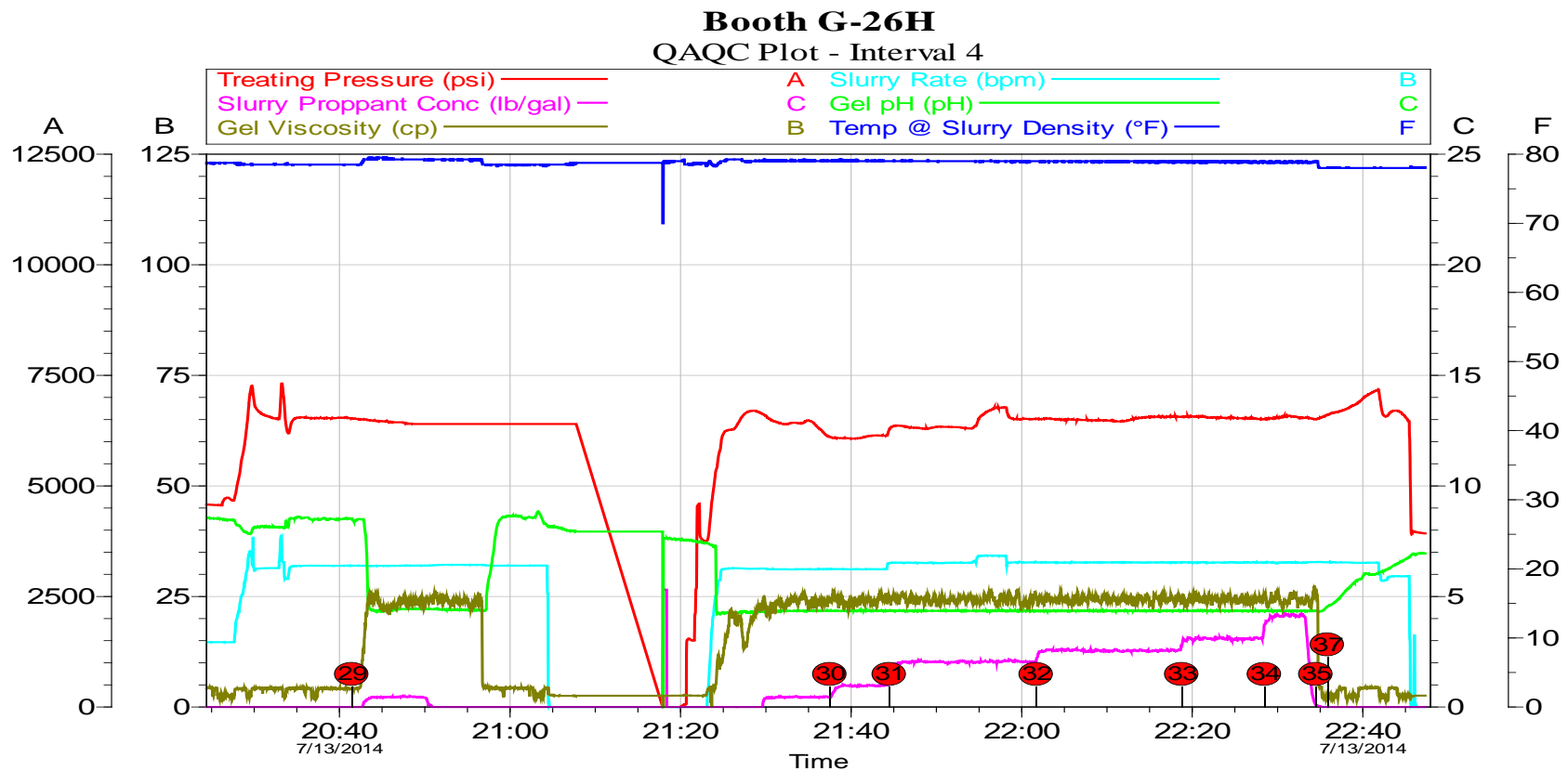
Customer:	BAYSWATER EXPLORATION &	Job Date:	13-Jul-2014	Sales Order #:	901484891
Well Description:	Booth G-26H	UWI:	05-123-36082		

## 2.14 Booth G-26H - Treatment Plot - Interval 4



Customer: BAYSWATER EXPLORATION &	Job Date: 13-Jul-2014	Sales Order #: 901484891
Well Description: Booth G-26H	UWI: 05-123-36082	

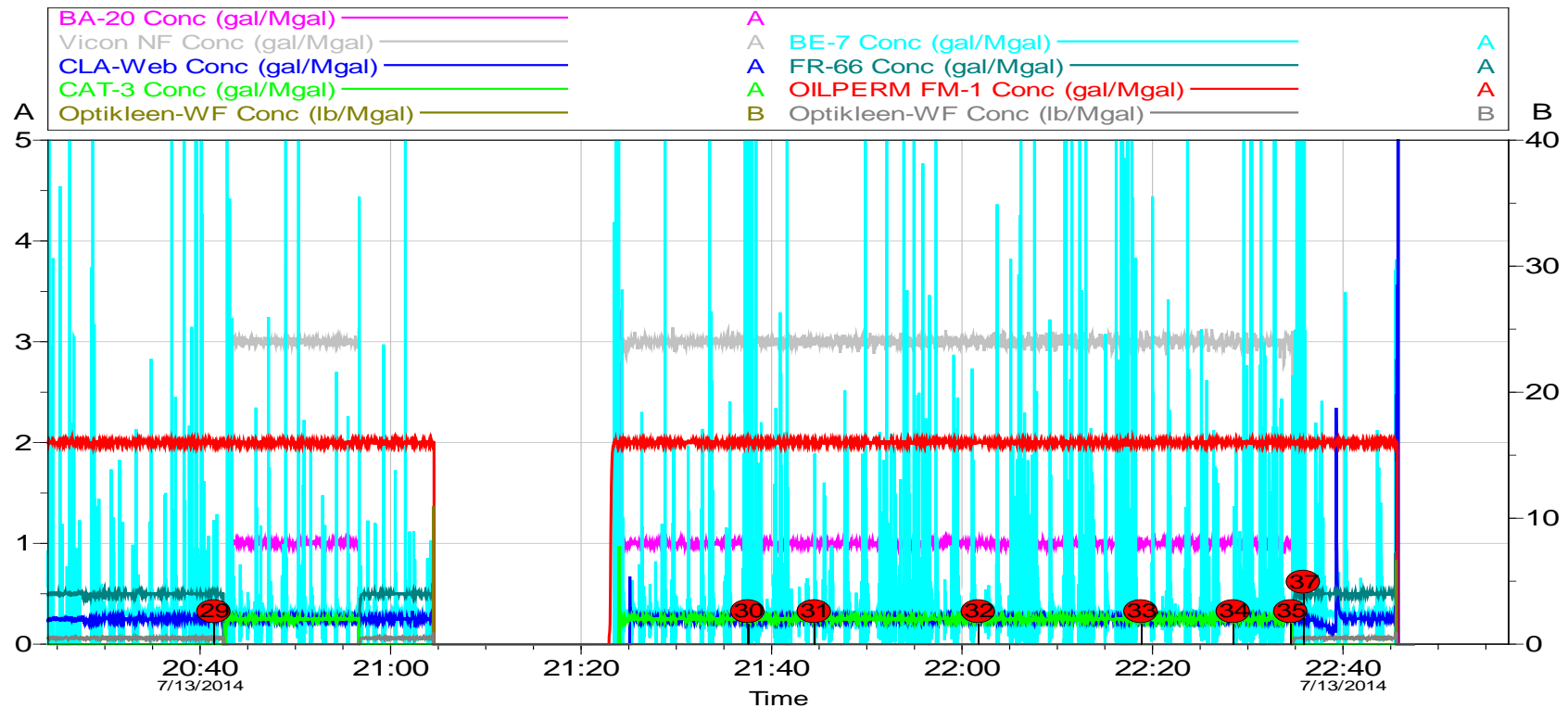
## 2.15 Booth G-26H - QAQC Plot - Interval 4



Customer: BAYSWATER EXPLORATION &	Job Date: 13-Jul-2014	Sales Order #: 901484891
Well Description: Booth G-26H	UWI: 05-123-36082	

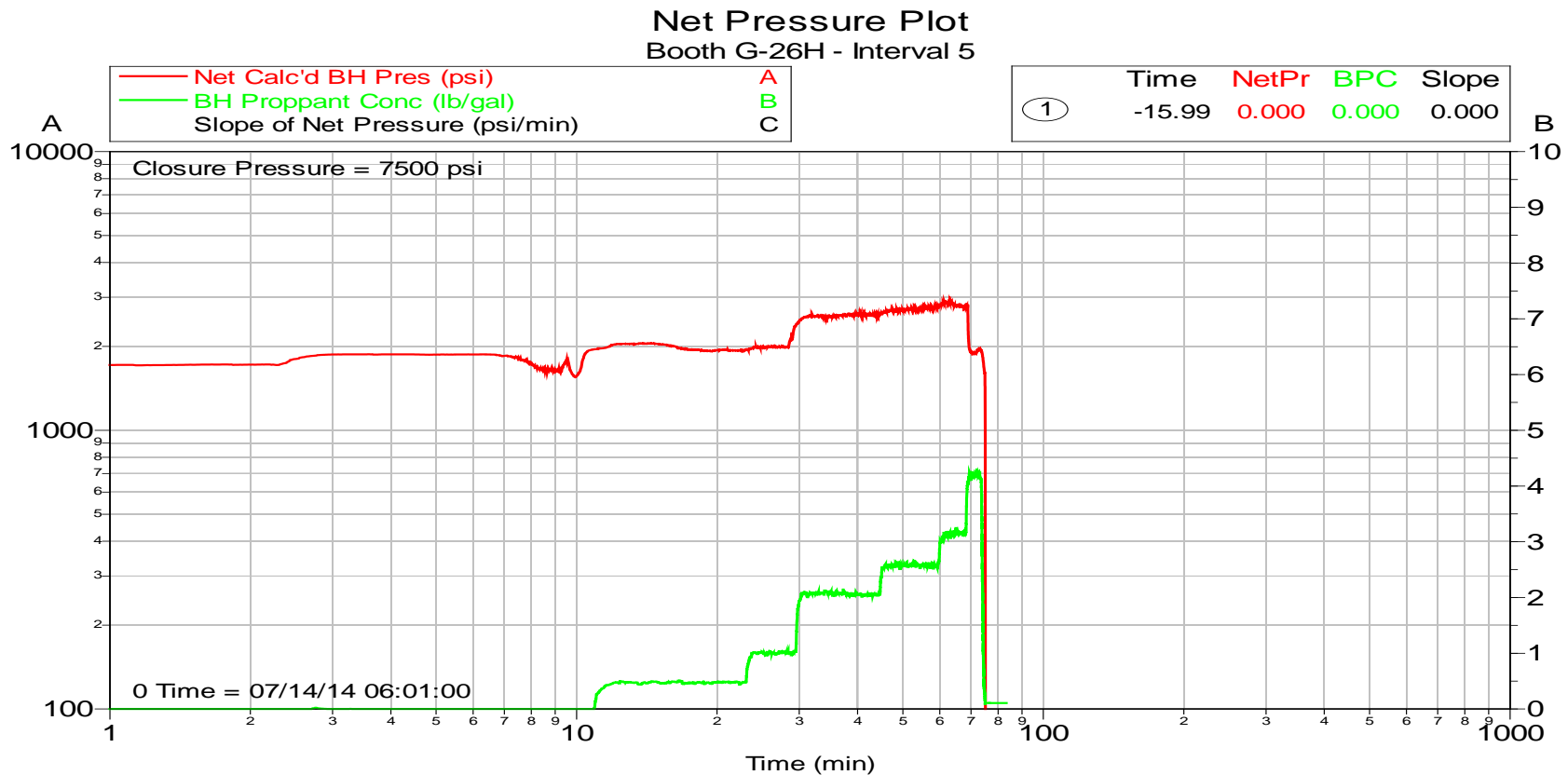
## 2.16 Booth G-26H - Chemical Plot - Interval 4

**Booth G-26H**  
Chemical Plot - Interval 4



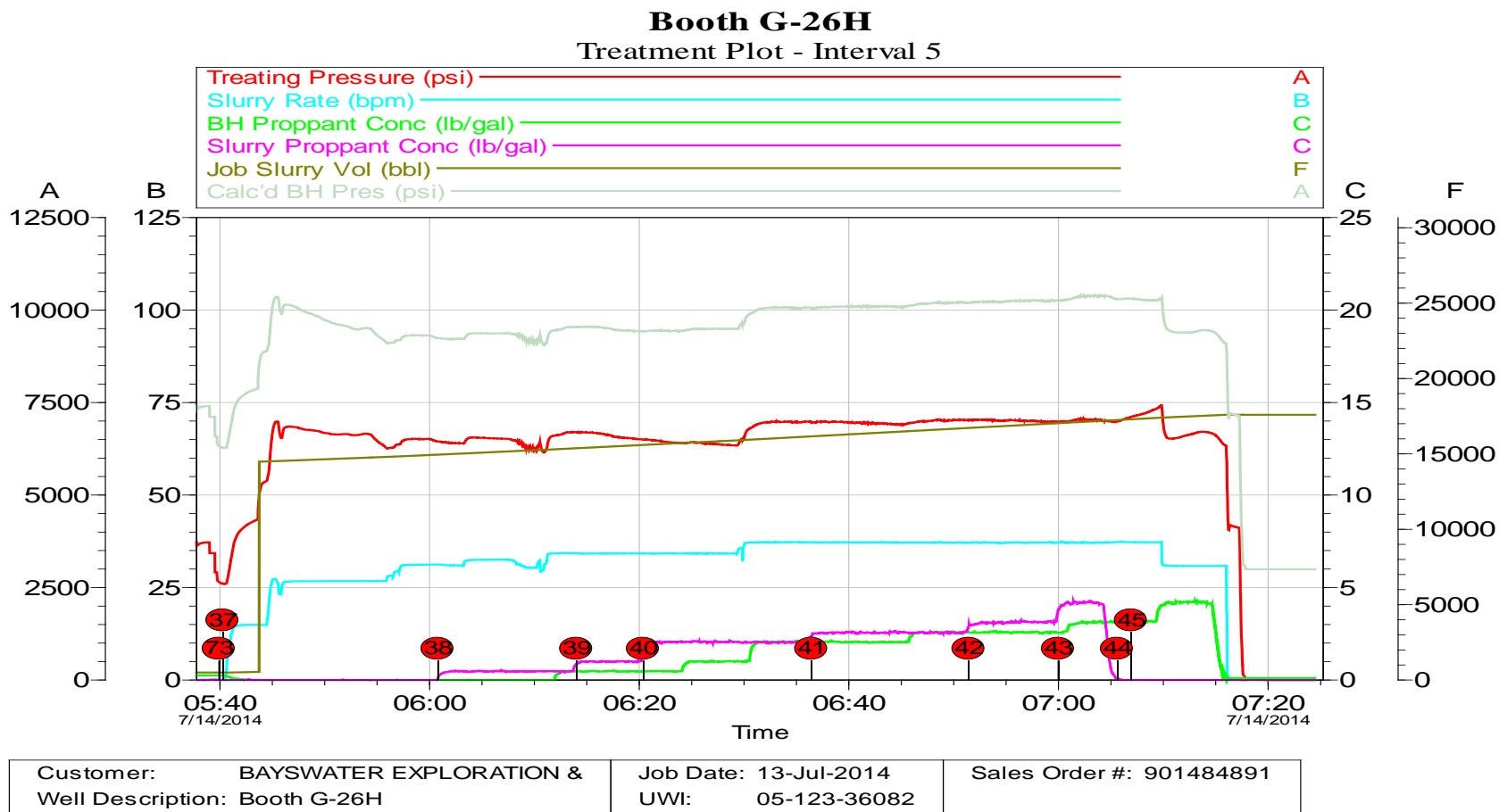
Customer: BAYSWATER EXPLORATION &	Job Date: 13-Jul-2014	Sales Order #: 901484891
Well Description: Booth G-26H	UWI: 05-123-36082	

## 2.17 Net Pressure Plot - Booth G-26H - Interval 5

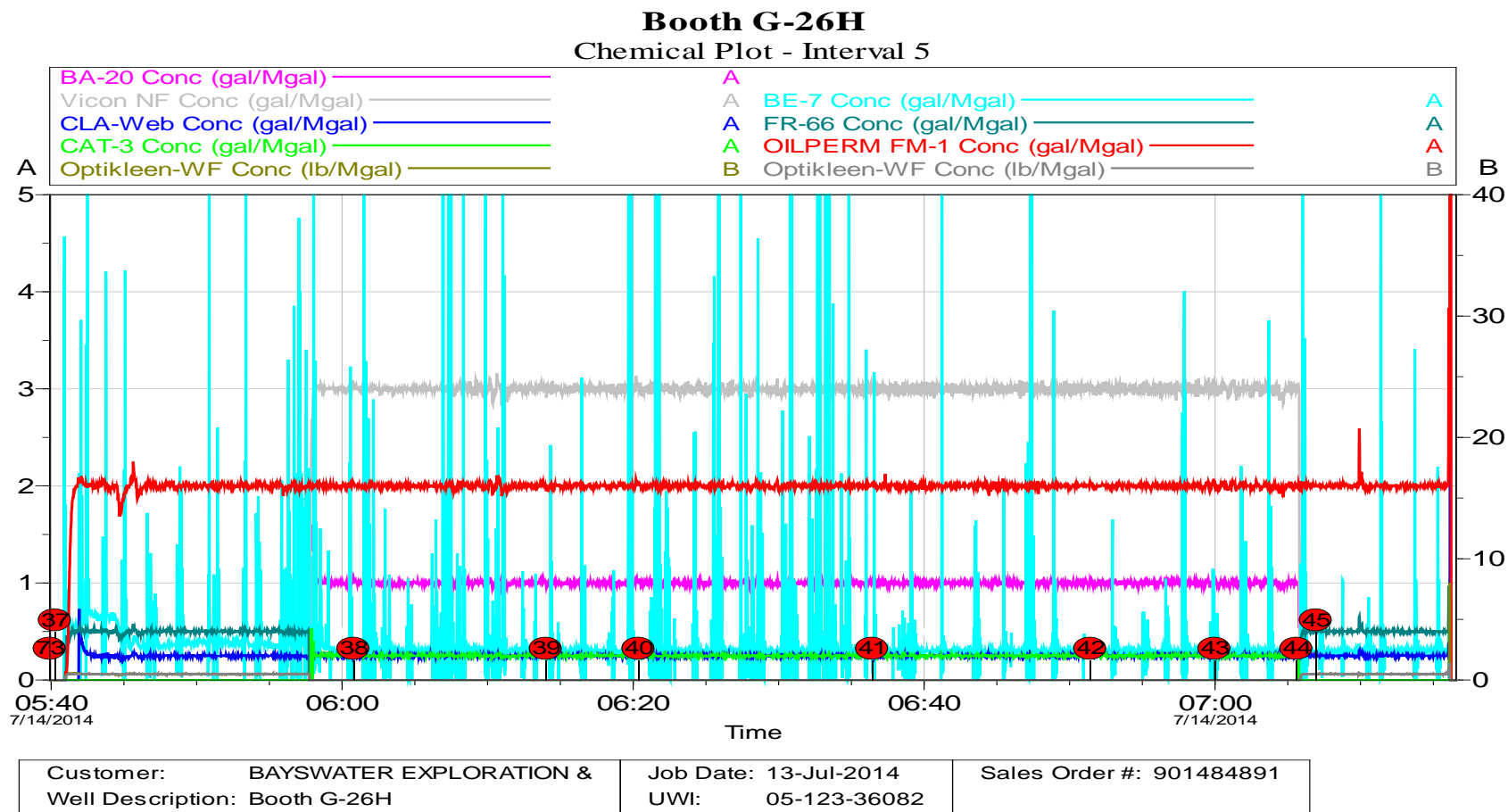


Customer: BAYSWATER EXPLORATION &	Job Date: 13-Jul-2014	Sales Order #: 901484891
Well Description: Booth G-26H	UWI: 05-123-36082	

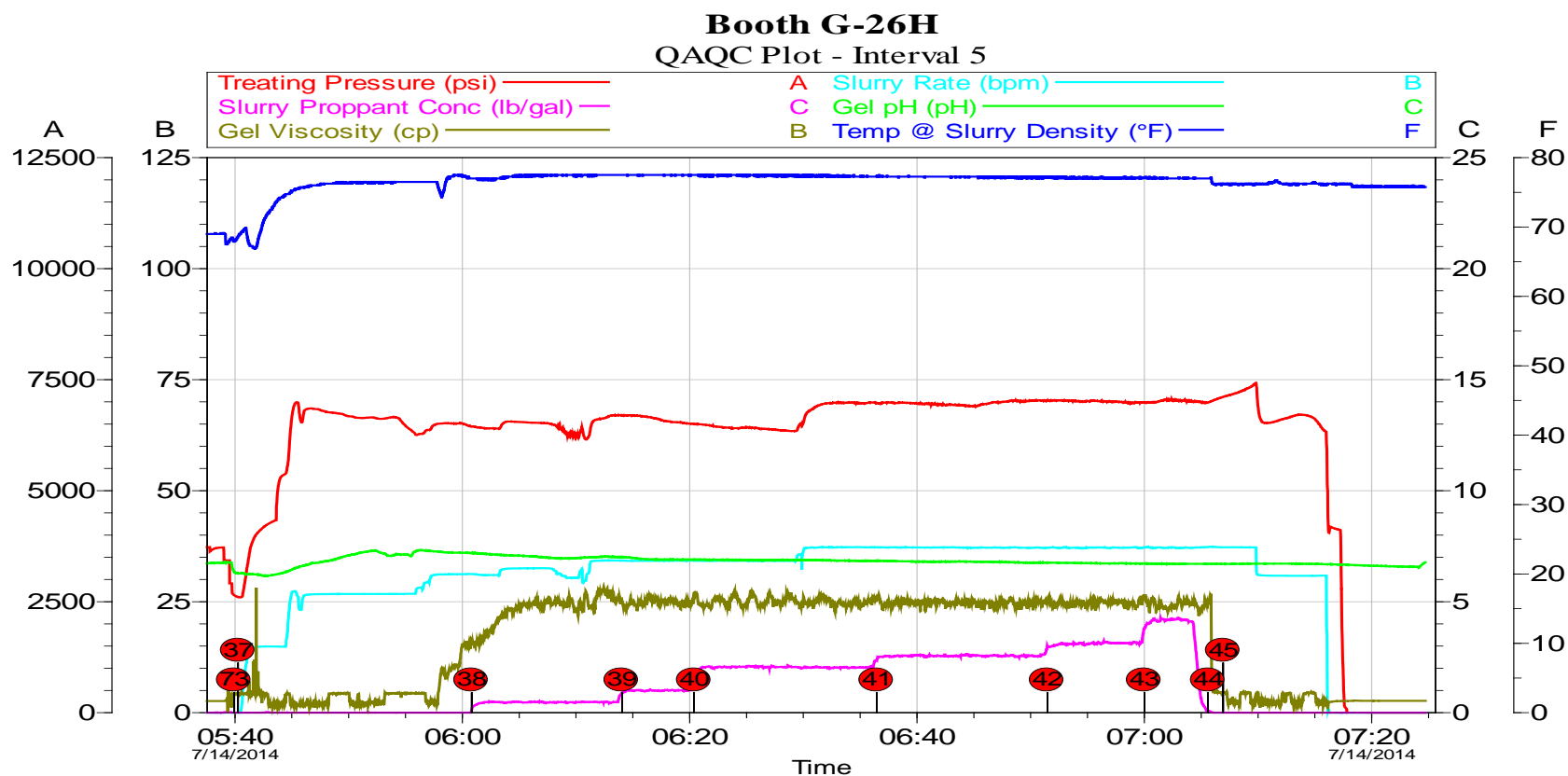
## 2.18 Booth G-26H - Treatment Plot - Interval 5



## 2.19 Booth G-26H - Chemical Plot - Interval 5

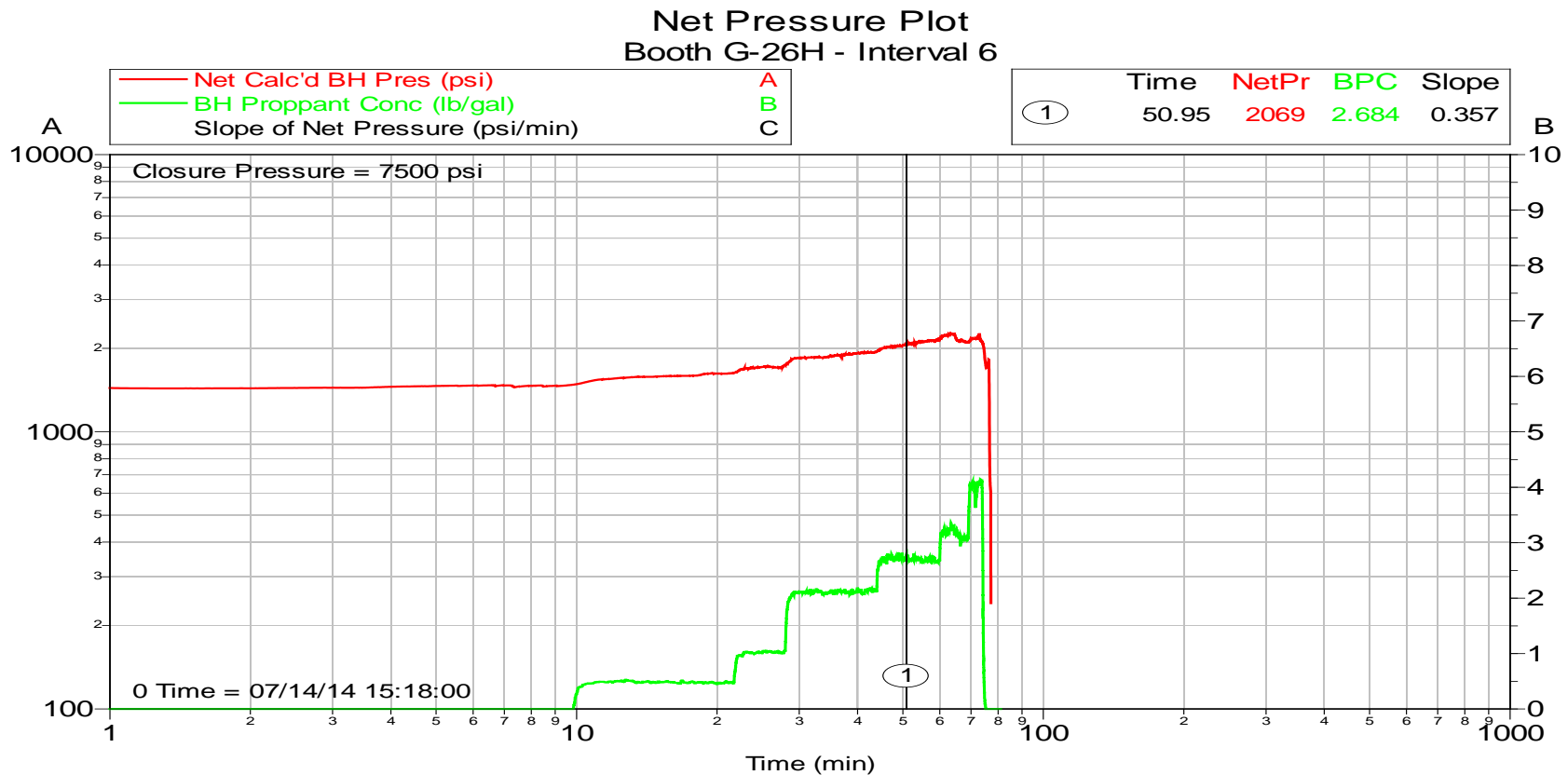


## 2.20 Booth G-26H - QAQC Plot - Interval 5



Customer: BAYSWATER EXPLORATION &	Job Date: 13-Jul-2014	Sales Order #: 901484891
Well Description: Booth G-26H	UWI: 05-123-36082	

## 2.21 Net Pressure Plot - Booth G-26H - Interval 6

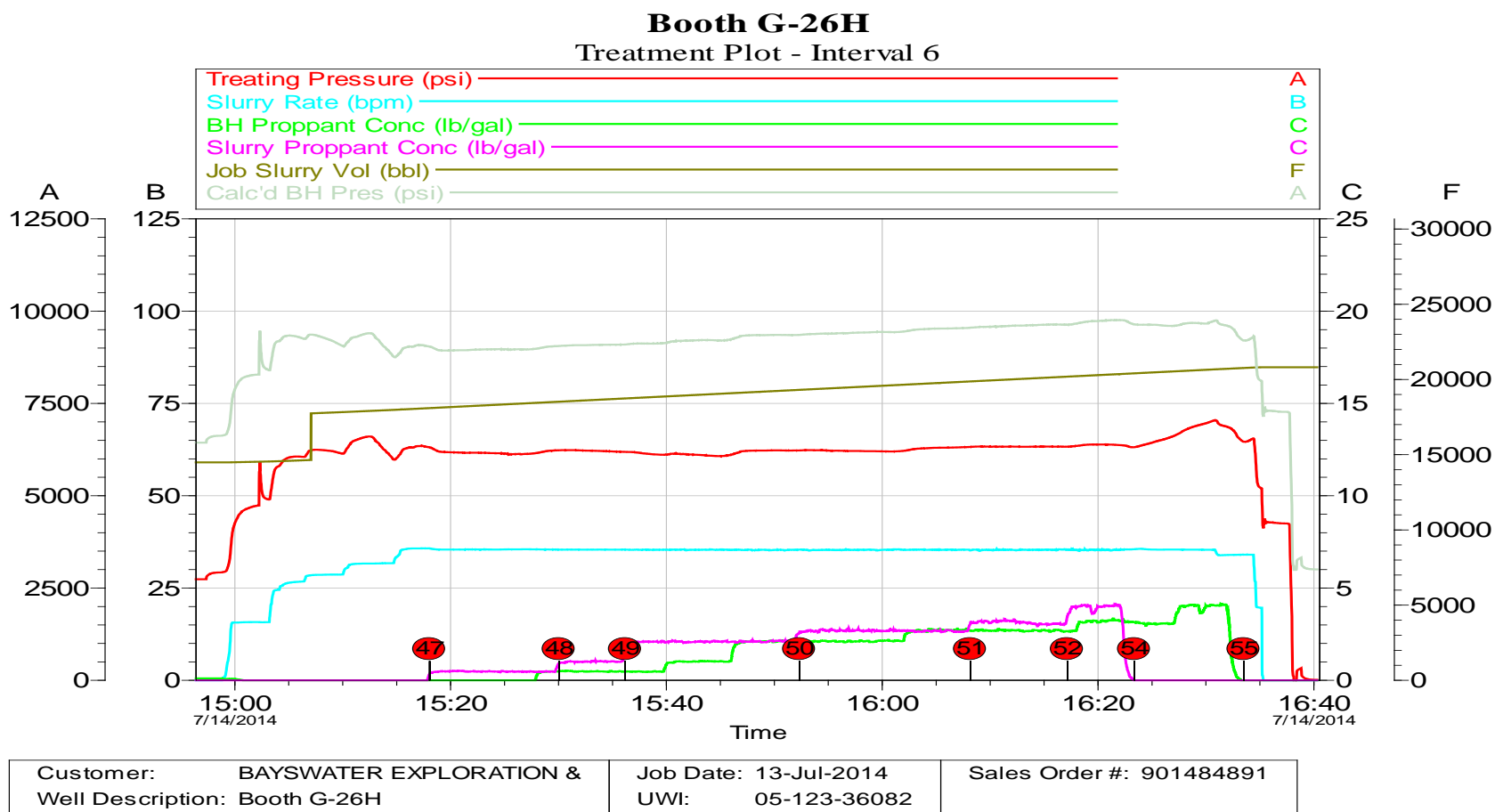


Customer: BAYSWATER EXPLORATION &  
Well Description: Booth G-26H

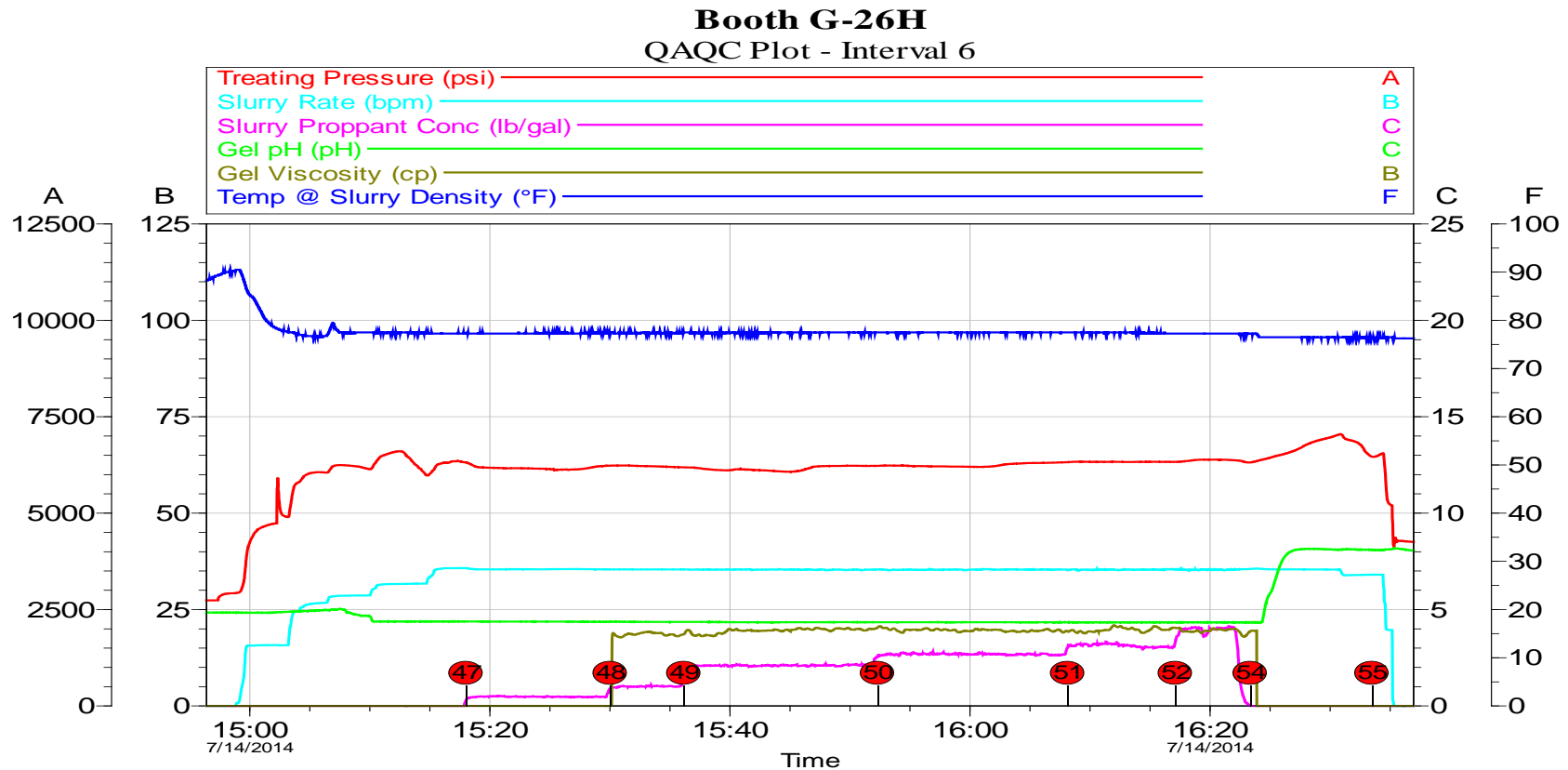
Job Date: 13-Jul-2014  
UWI: 05-123-36082

Sales Order #: 901484891

## 2.22 Booth G-26H - Treatment Plot - Interval 6



## 2.23 Booth G-26H - QAQC Plot - Interval 6

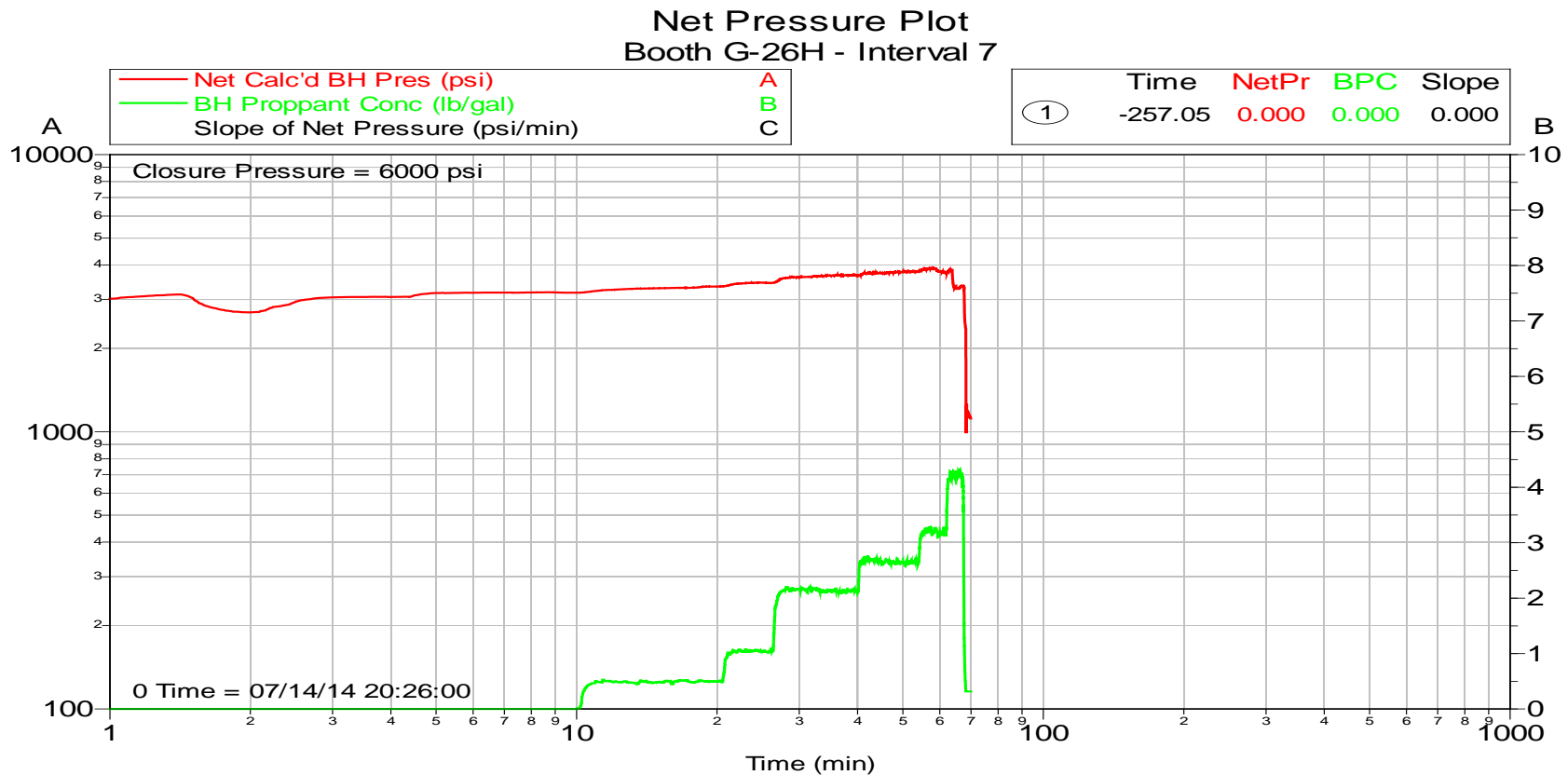


Customer: BAYSWATER EXPLORATION &	Job Date: 13-Jul-2014	Sales Order #: 901484891
Well Description: Booth G-26H	UWI: 05-123-36082	

**Booth G-26H**  
Chemical Plot - Interval 6



## 2.25 Net Pressure Plot - Booth G-26H - Interval 7

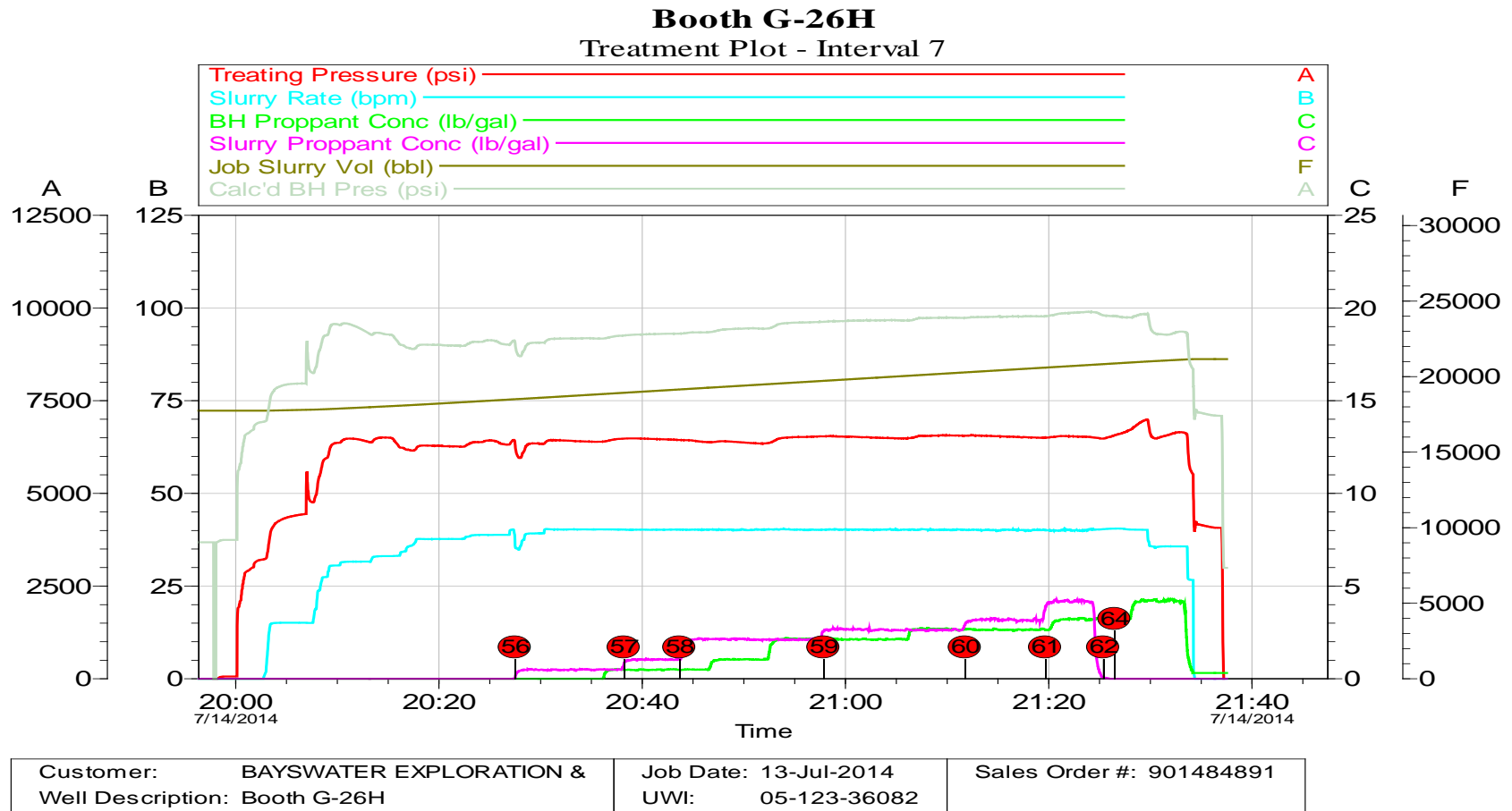


Customer: BAYSWATER EXPLORATION &  
Well Description: Booth G-26H

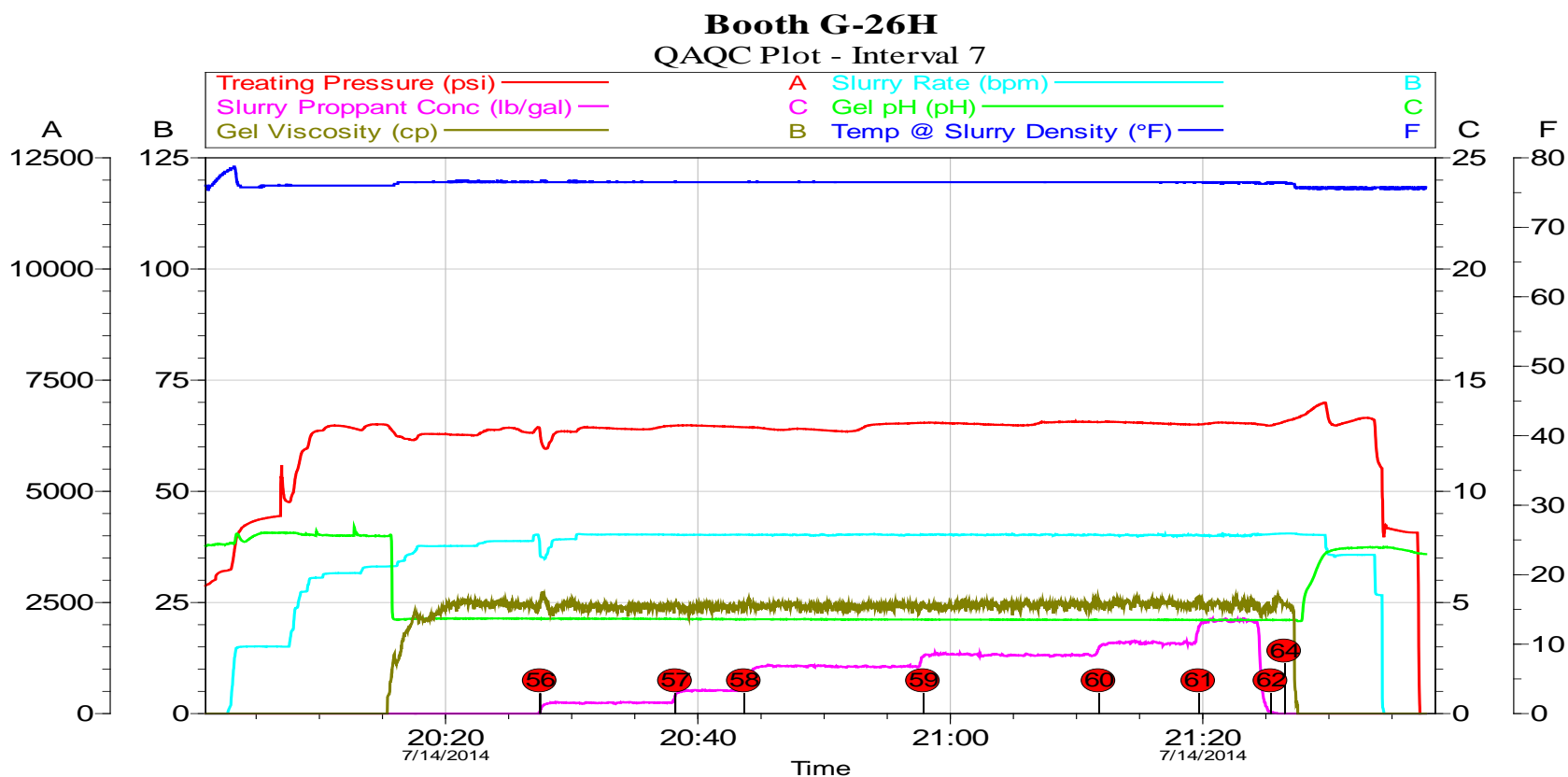
Job Date: 13-Jul-2014  
UWI: 05-123-36082

Sales Order #: 901484891

## 2.26 Booth G-26H - Treatment Plot - Interval 7



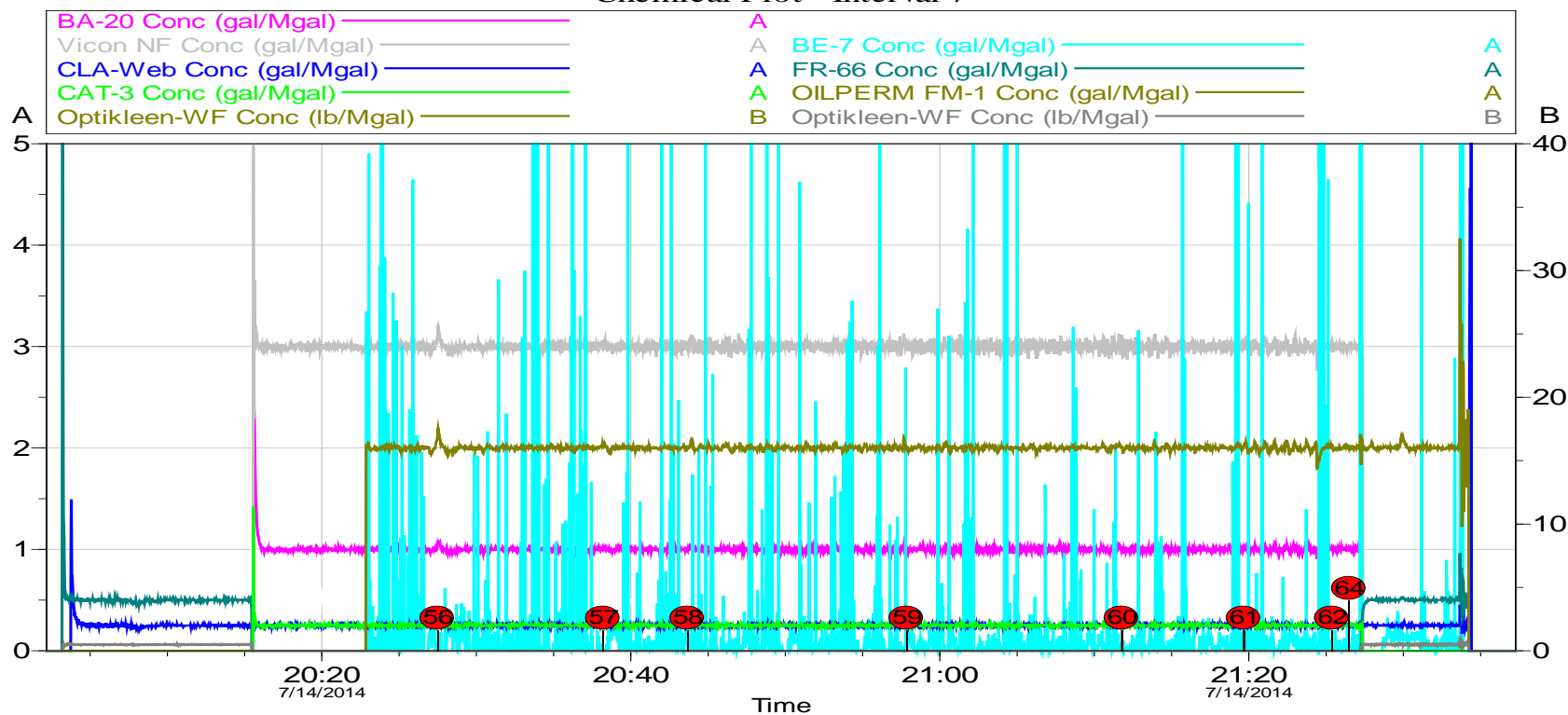
## 2.27 Booth G-26H - QAQC Plot - Interval 7



Customer: BAYSWATER EXPLORATION &	Job Date: 13-Jul-2014	Sales Order #: 901484891
Well Description: Booth G-26H	UWI: 05-123-36082	

## 2.28 Booth G-26H - Chemical Plot - Interval 7

**Booth G-26H**  
Chemical Plot - Interval 7

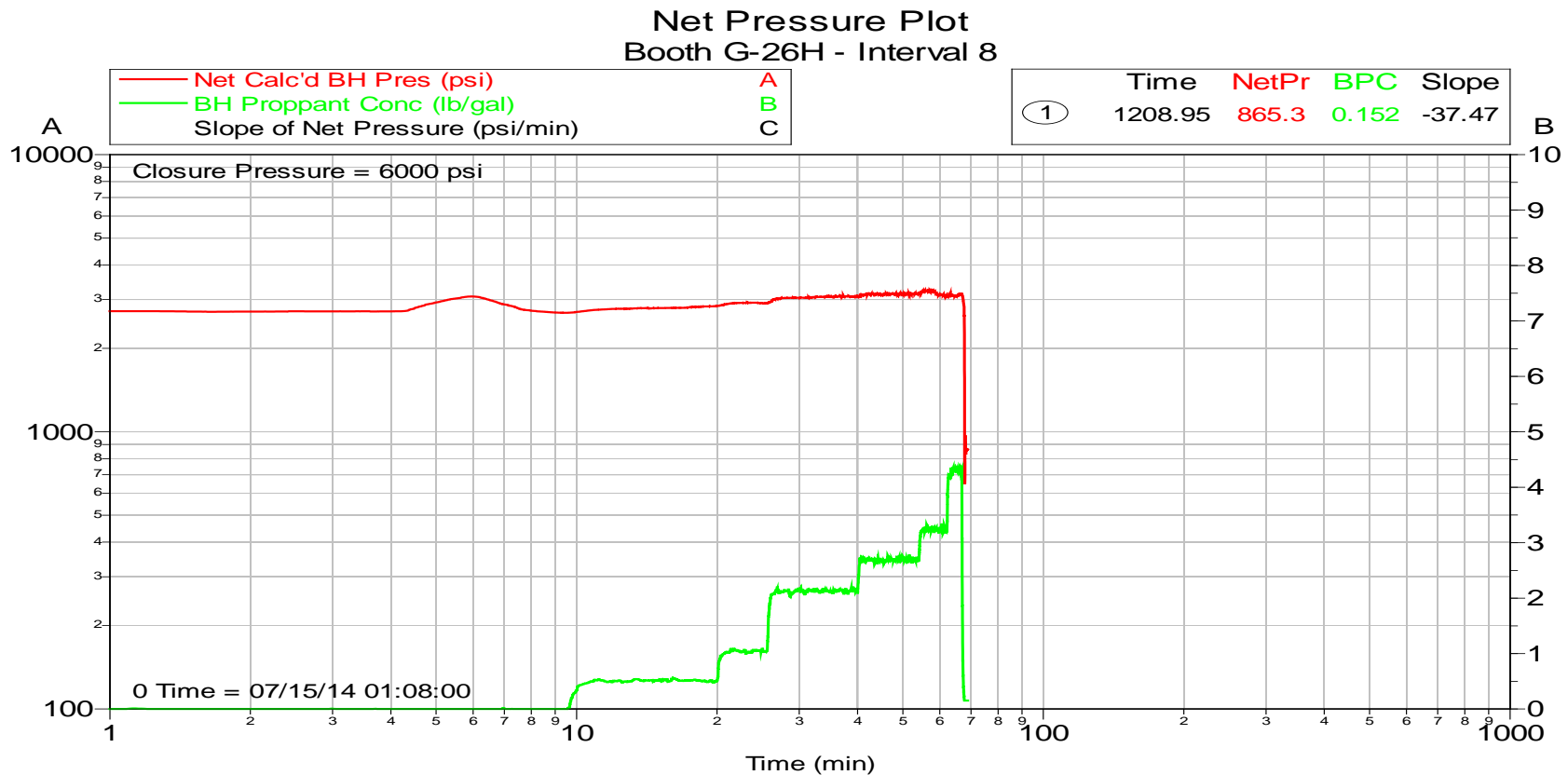


Customer: BAYSWATER EXPLORATION &  
Well Description: Booth G-26H

Job Date: 13-Jul-2014  
UWI: 05-123-36082

Sales Order #: 901484891

## 2.29 Net Pressure Plot - Booth G-26H - Interval 8

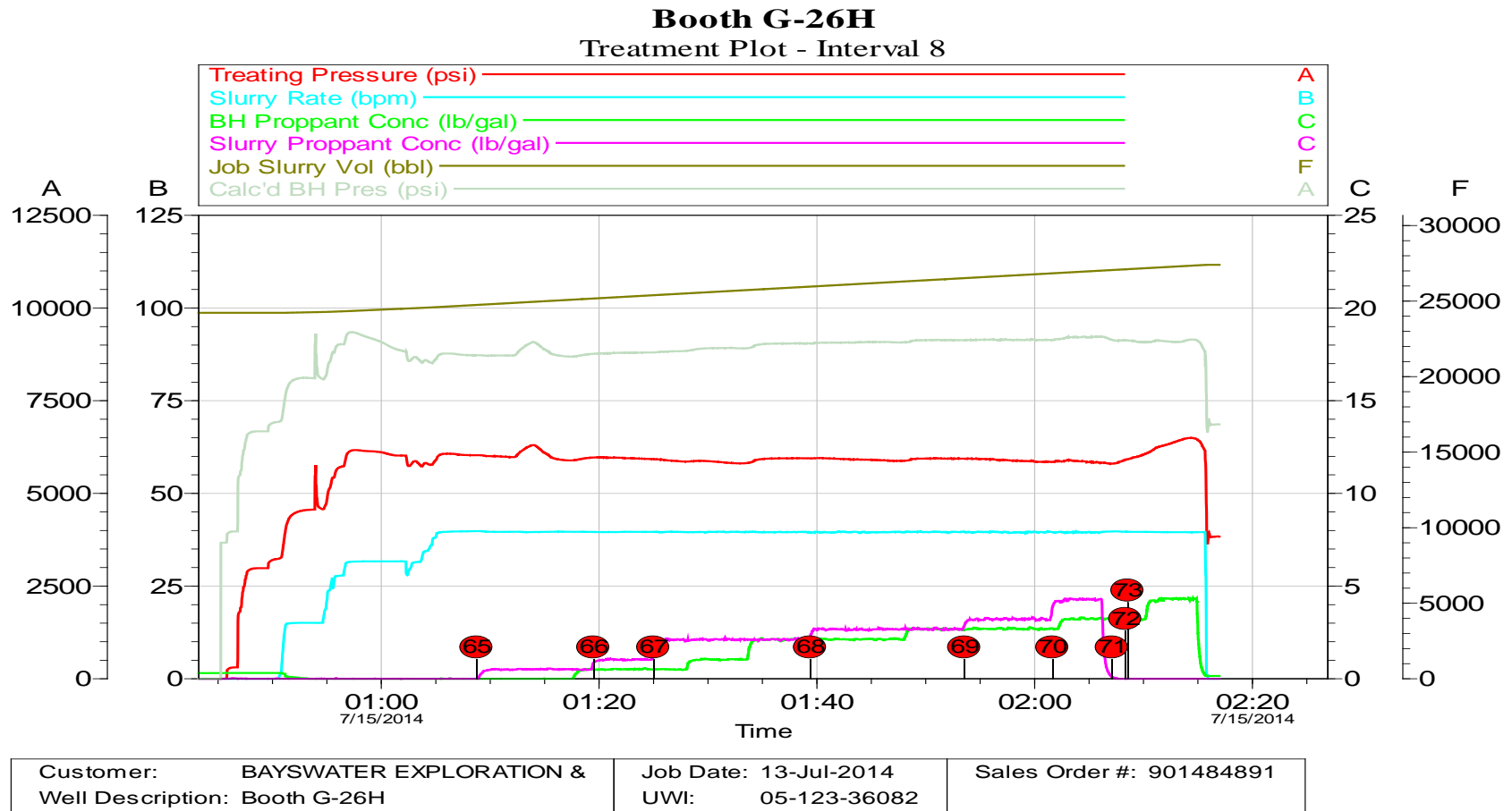


Customer: BAYSWATER EXPLORATION &  
Well Description: Booth G-26H

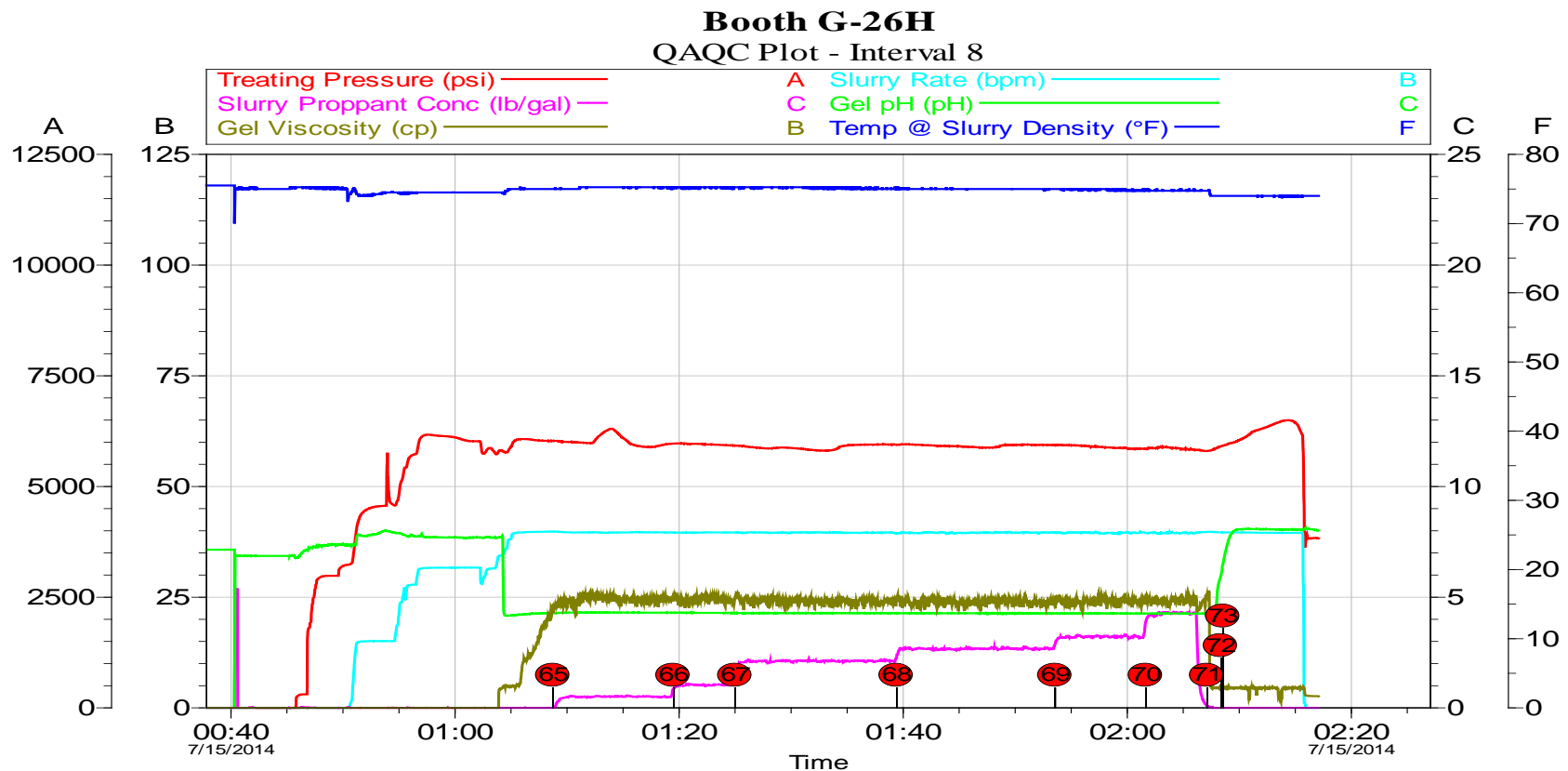
Job Date: 13-Jul-2014  
UWI: 05-123-36082

Sales Order #: 901484891

## 2.30 Booth G-26H - Treatment Plot - Interval 8



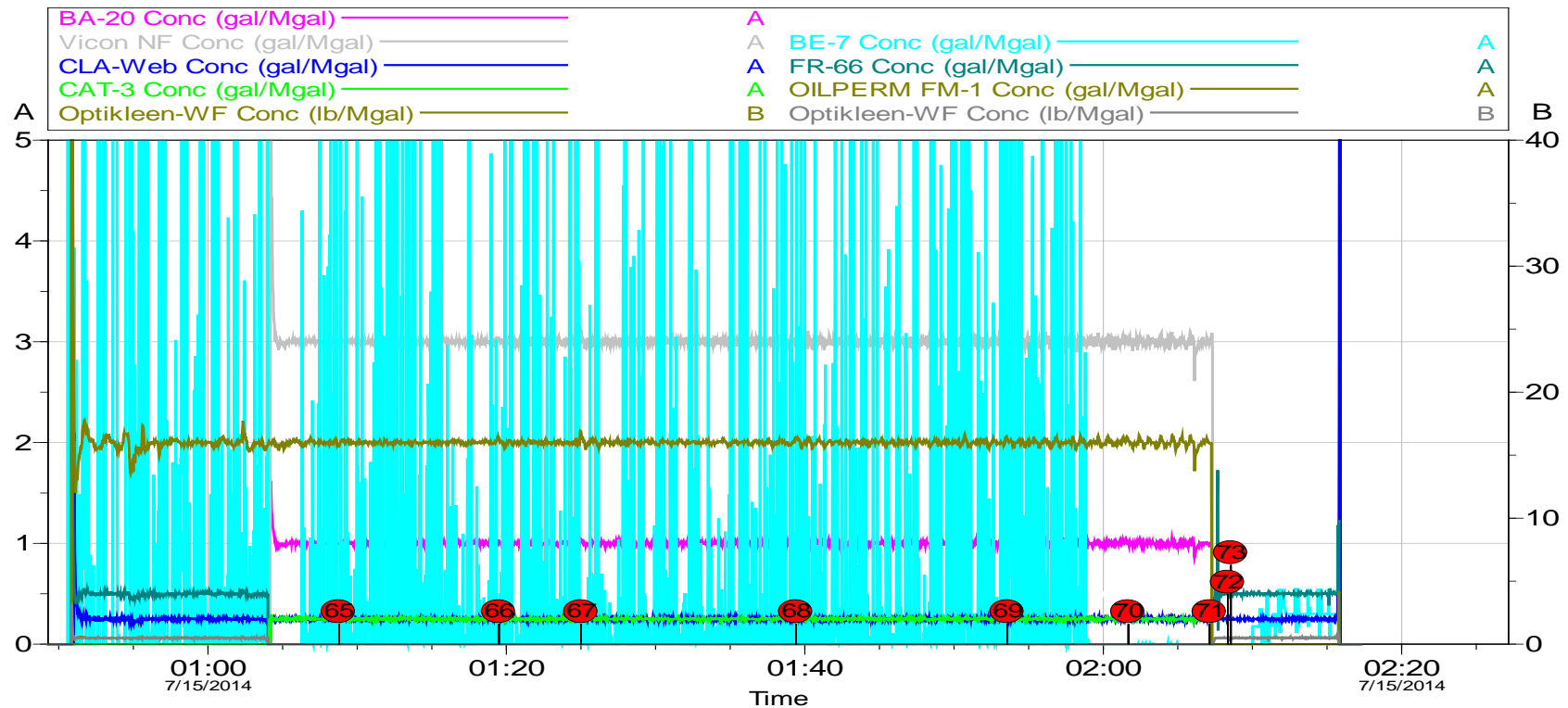
## 2.31 Booth G-26H - QAQC Plot - Interval 8



Customer: BAYSWATER EXPLORATION &	Job Date: 13-Jul-2014	Sales Order #: 901484891
Well Description: Booth G-26H	UWI: 05-123-36082	

## 2.32 Booth G-26H - Chemical Plot - Interval 8

**Booth G-26H**  
Chemical Plot - Interval 8

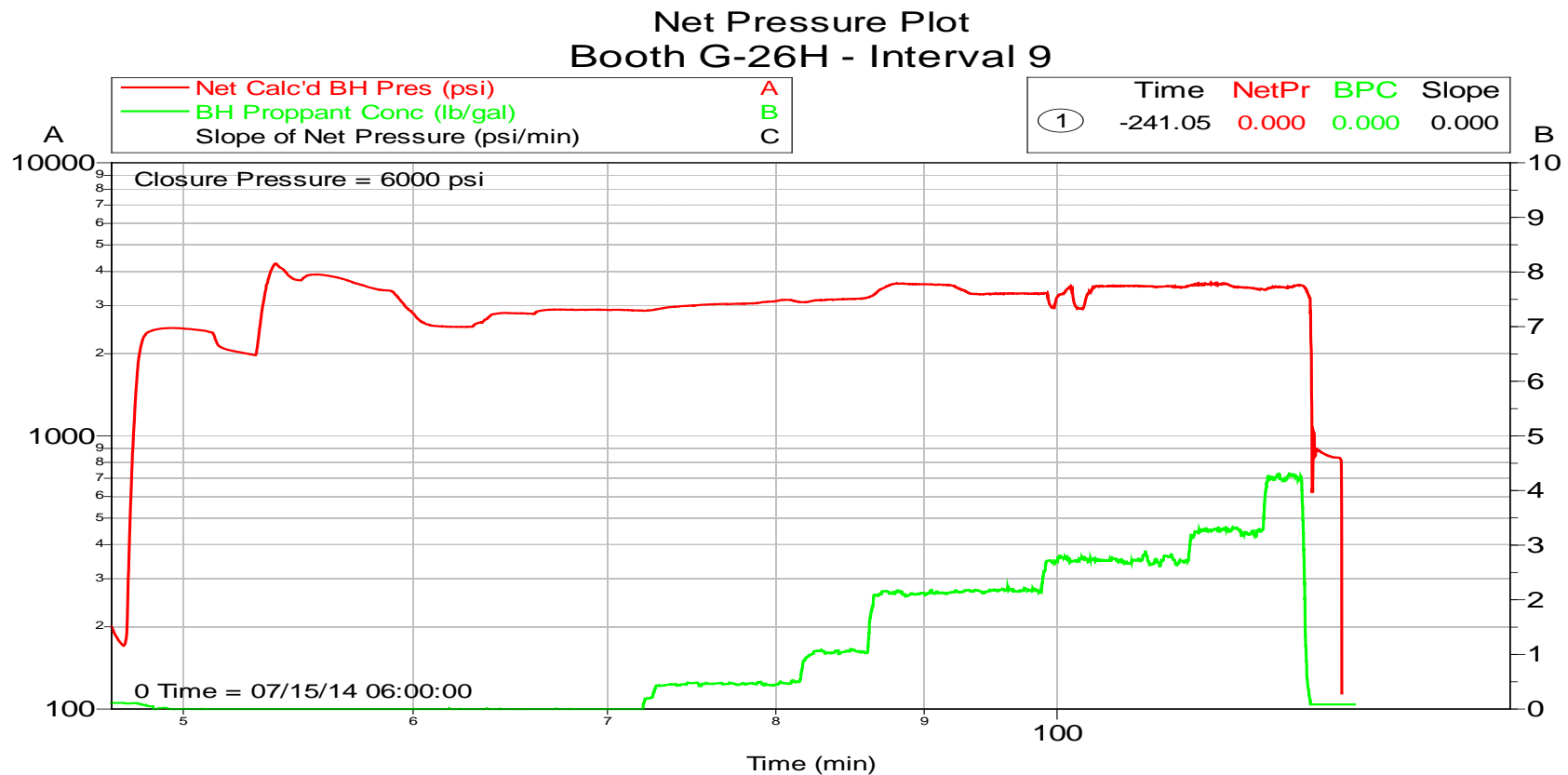


Customer: BAYSWATER EXPLORATION &  
Well Description: Booth G-26H

Job Date: 13-Jul-2014  
UWI: 05-123-36082

Sales Order #: 901484891

## 2.33 Net Pressure Plot - Booth G-26H - Interval 9

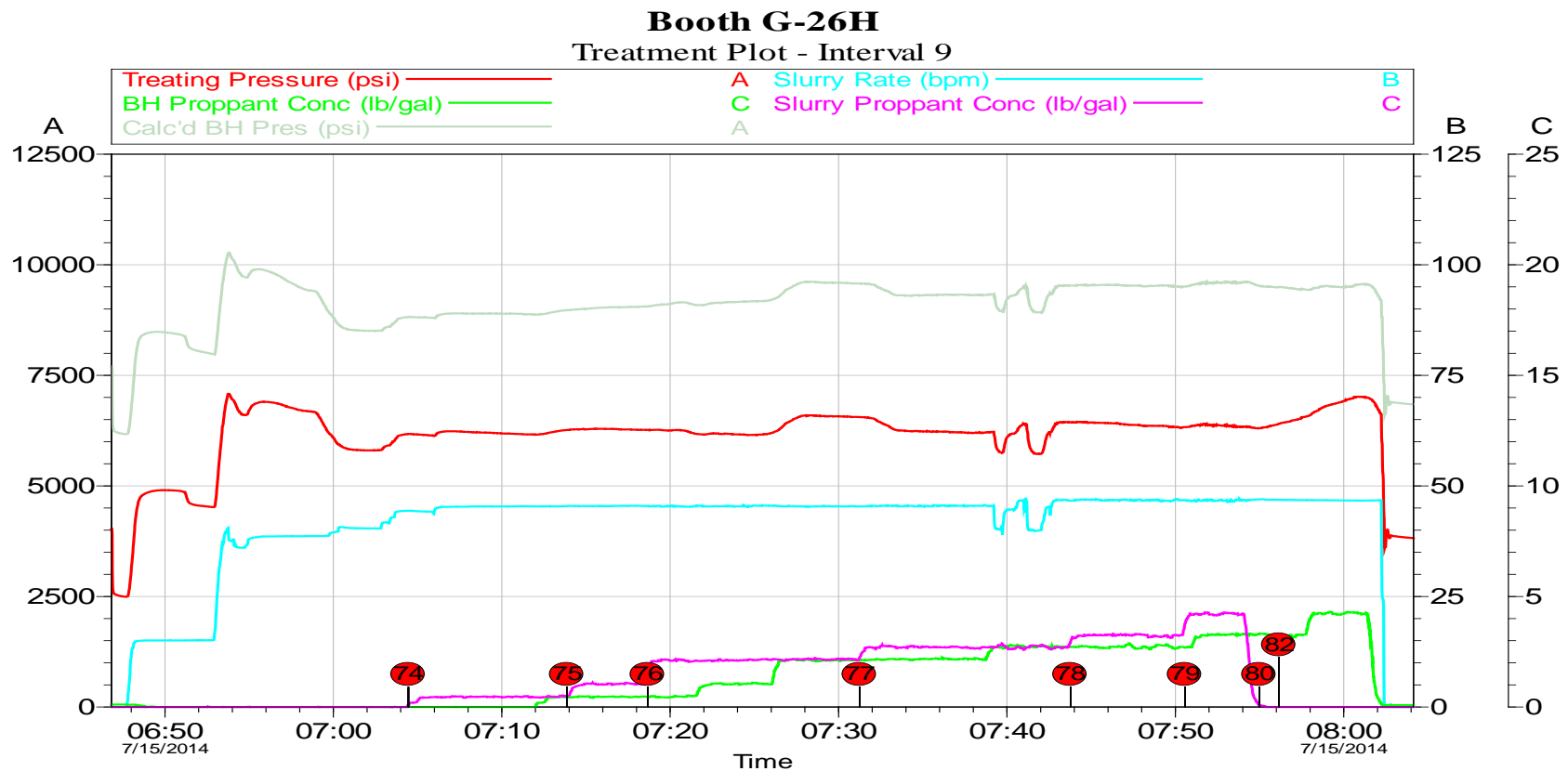


Customer: BAYSWATER EXPLORATION &  
Well Description: Booth G-26H

Job Date: 13-Jul-2014  
UWI: 05-123-36082

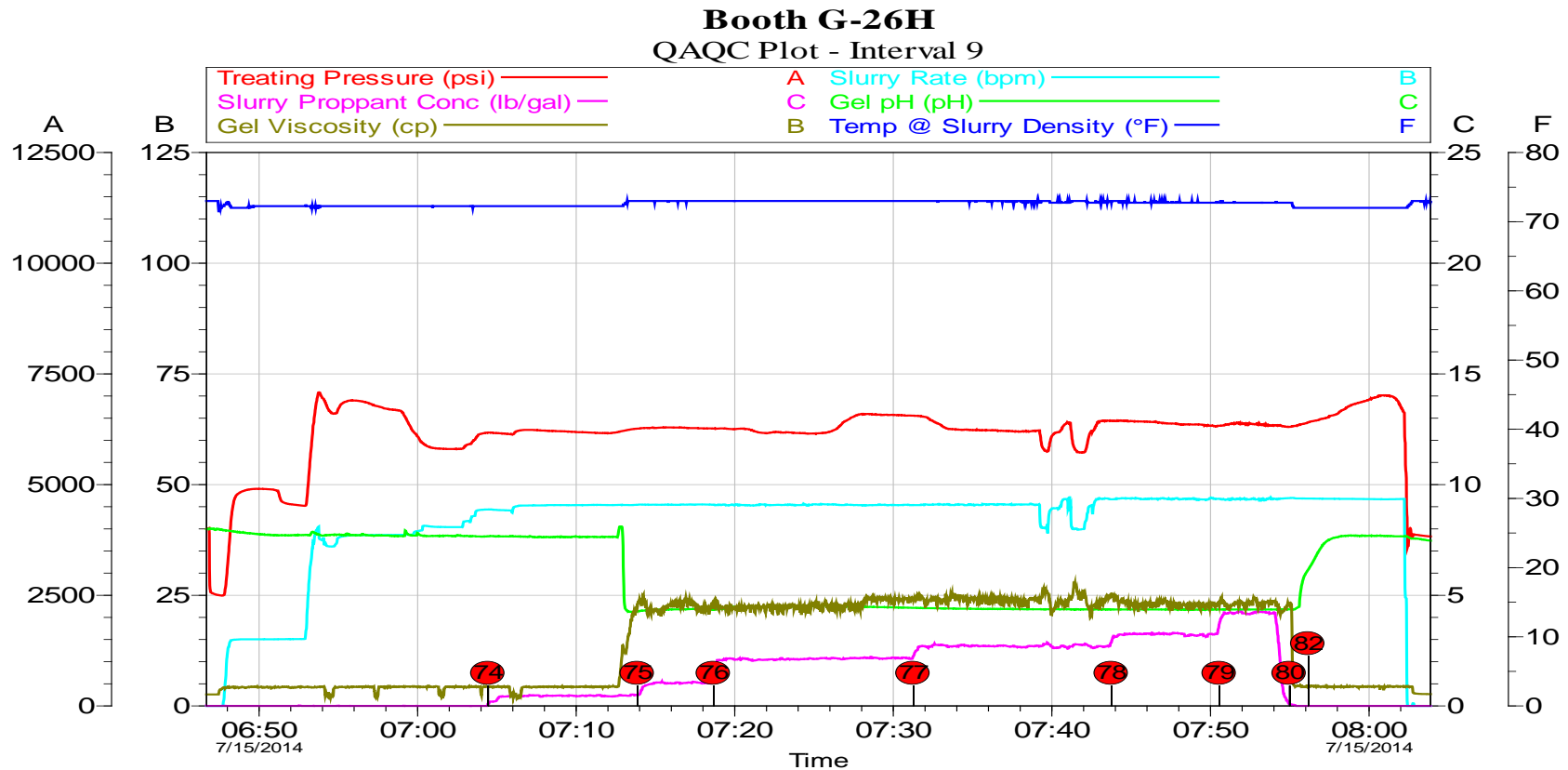
Sales Order #: 901484891

## 2.34 Booth G-26H - Treatment Plot - Interval 9



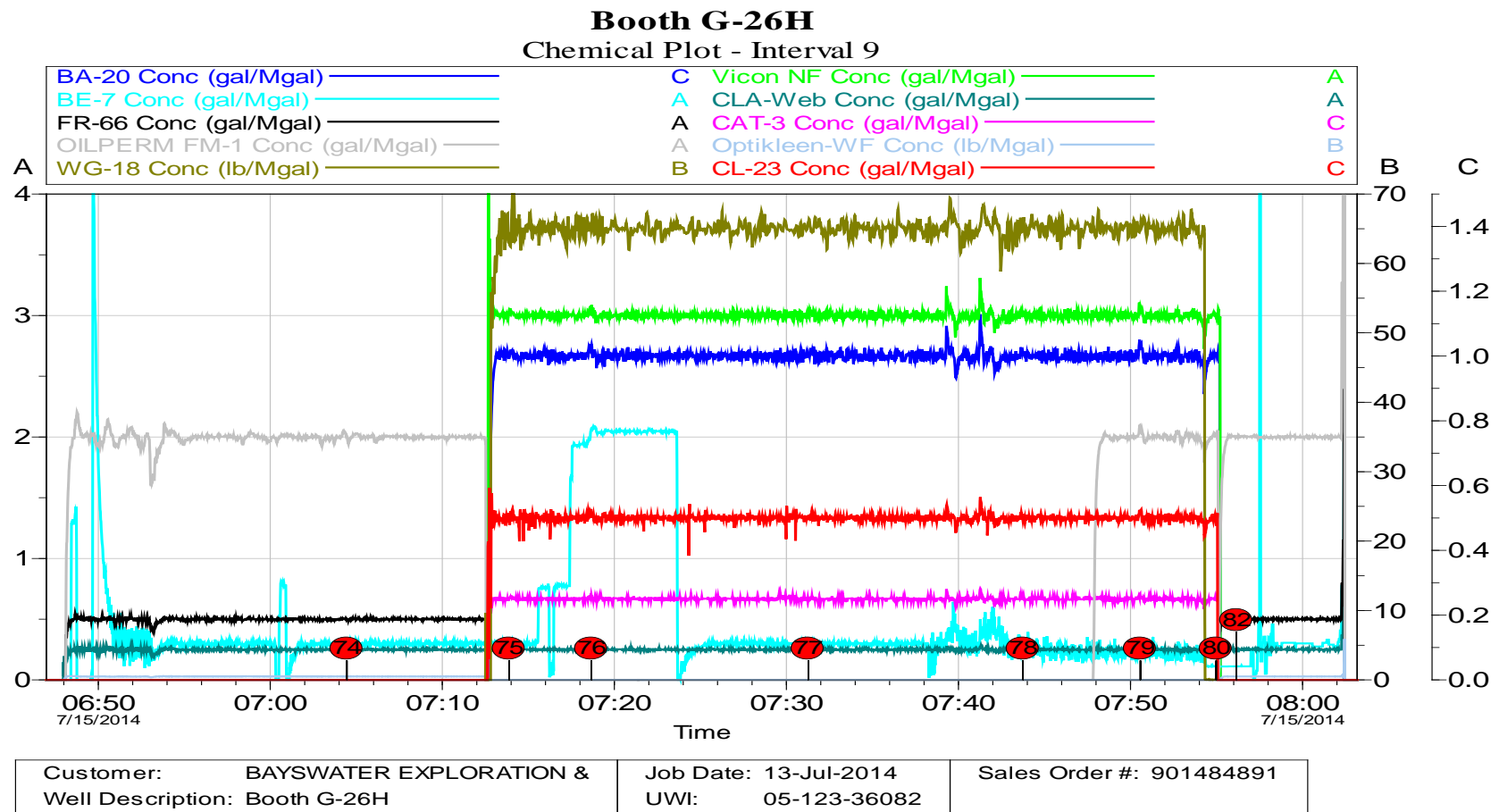
Customer: BAYSWATER EXPLORATION &	Job Date: 13-Jul-2014	Sales Order #: 901484891
Well Description: Booth G-26H	UWI: 05-123-36082	

## 2.35 Booth G-26H - QAQC Plot - Interval 9

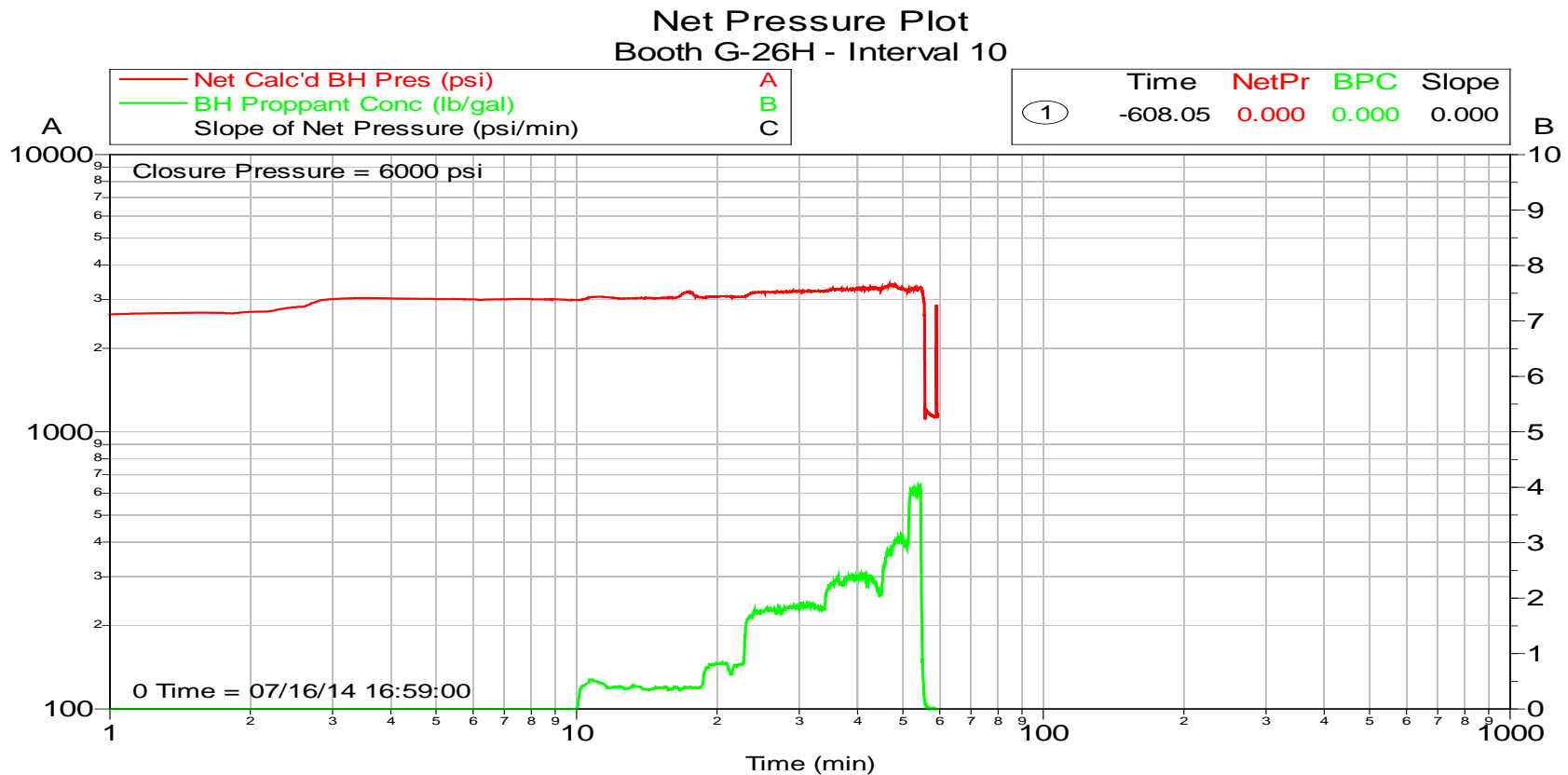


Customer: BAYSWATER EXPLORATION &	Job Date: 13-Jul-2014	Sales Order #: 901484891
Well Description: Booth G-26H	UWI: 05-123-36082	

## 2.36 Booth G-26H - Chemical Plot - Interval 9

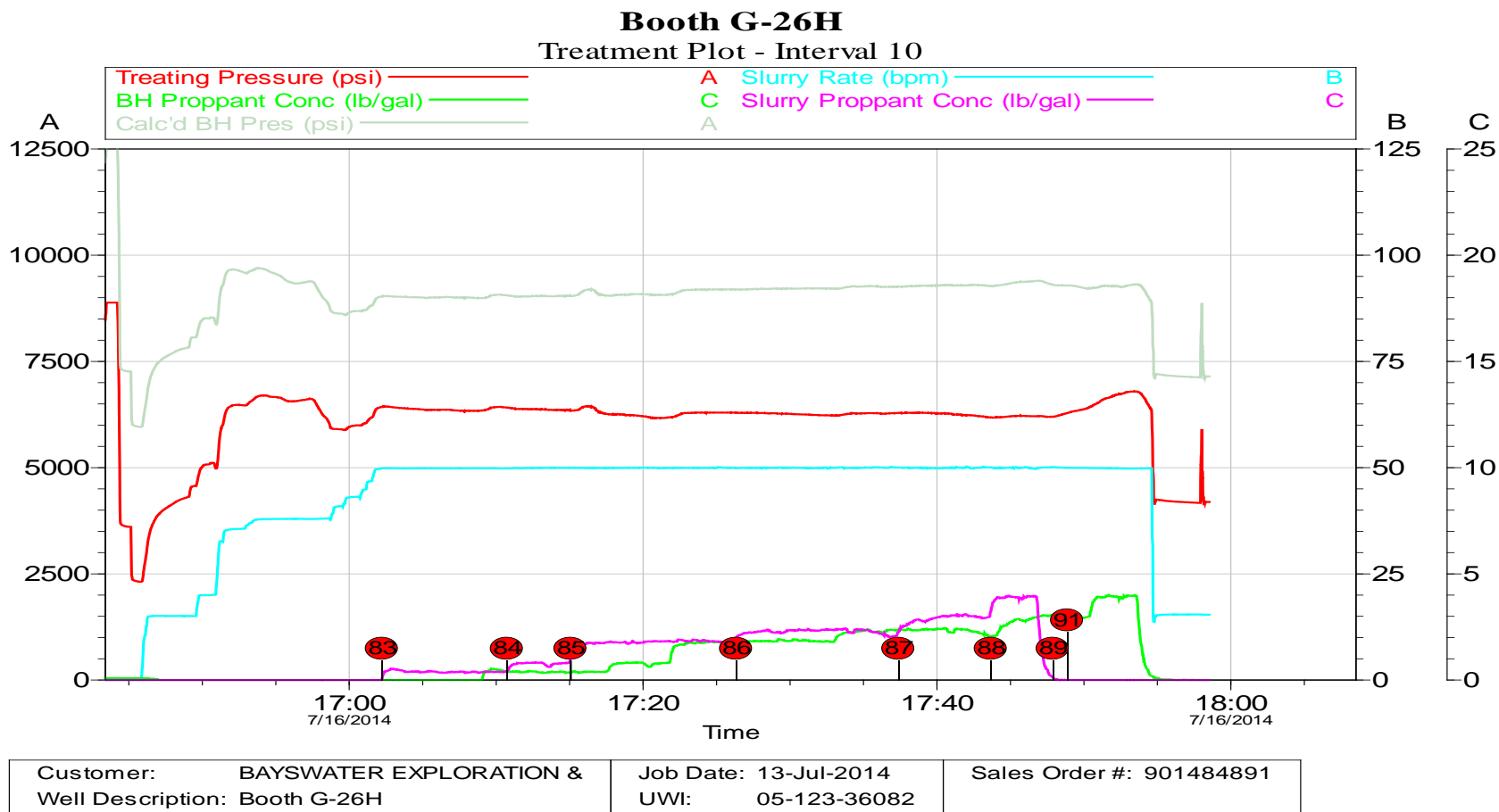


## 2.37 Net Pressure Plot - Booth G-26H - Interval 10

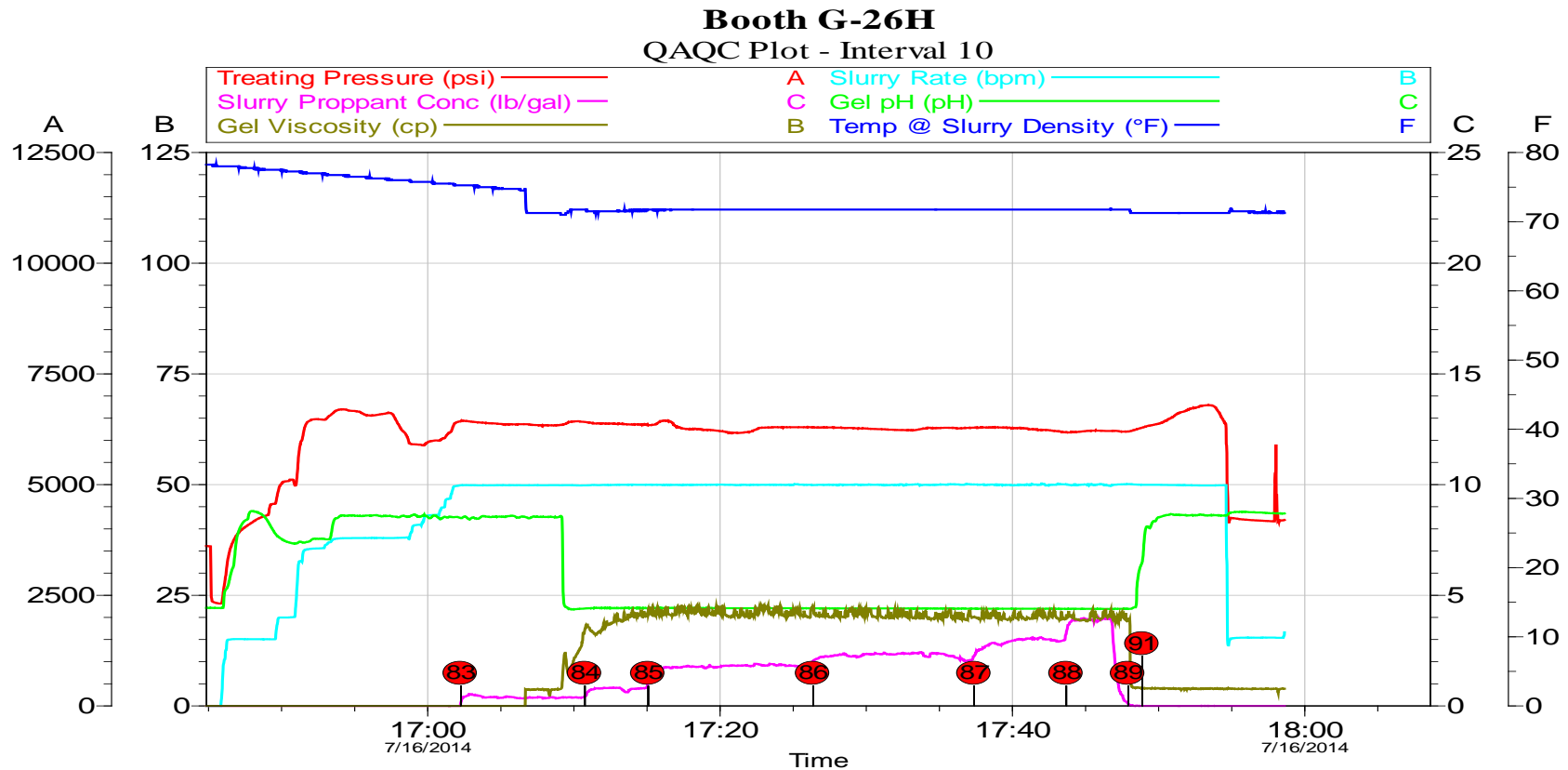


Customer:	BAYSWATER EXPLORATION &	Job Date:	13-Jul-2014	Sales Order #:	901484891
Well Description:	Booth G-26H	UWI:	05-123-36082		

## 2.38 Booth G-26H - Treatment Plot - Interval 10

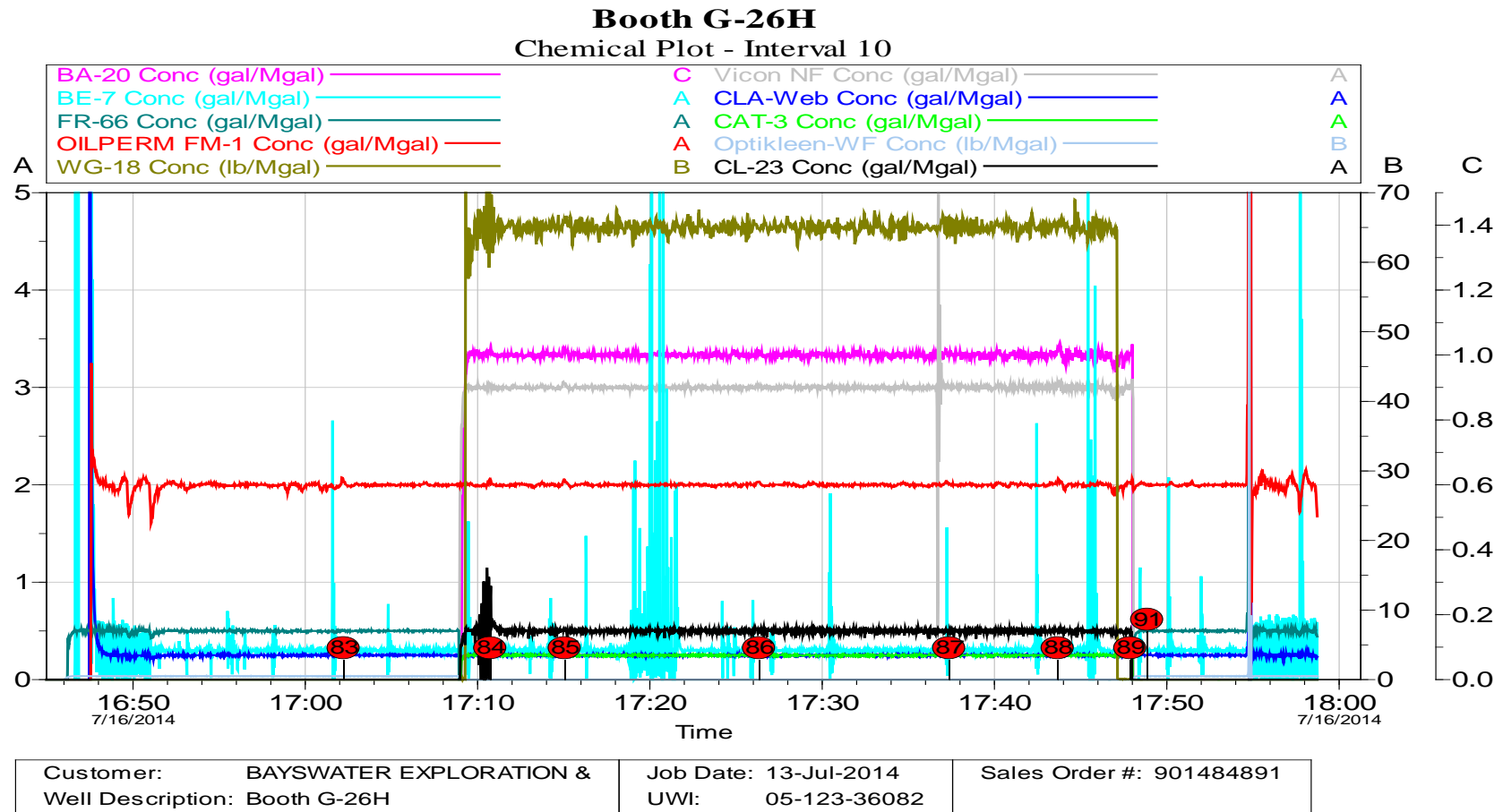


## 2.39 Booth G-26H - QAQC Plot - Interval 10

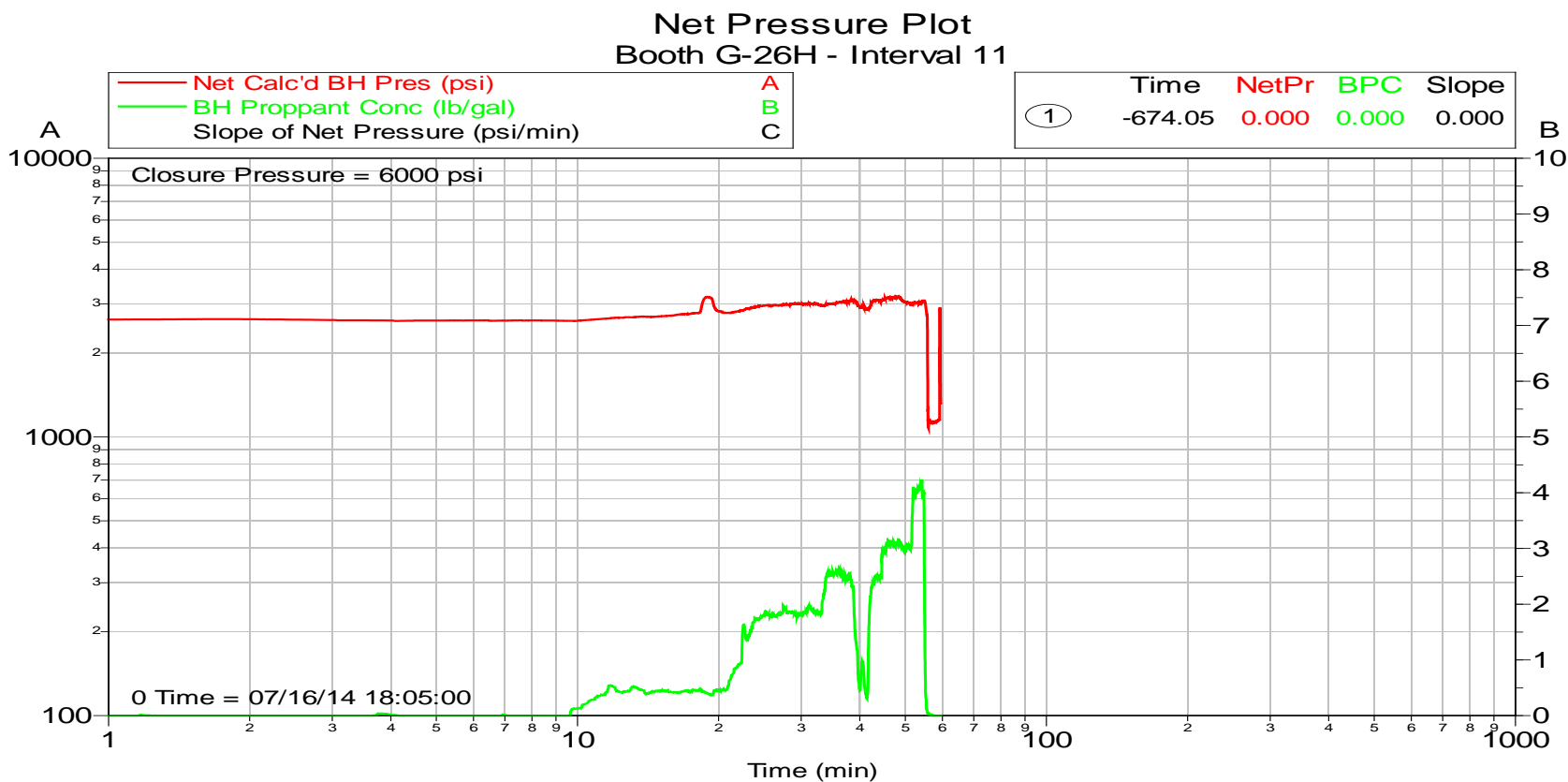


Customer: BAYSWATER EXPLORATION &	Job Date: 13-Jul-2014	Sales Order #: 901484891
Well Description: Booth G-26H	UWI: 05-123-36082	

## 2.40 Booth G-26H - Chemical Plot - Interval 10

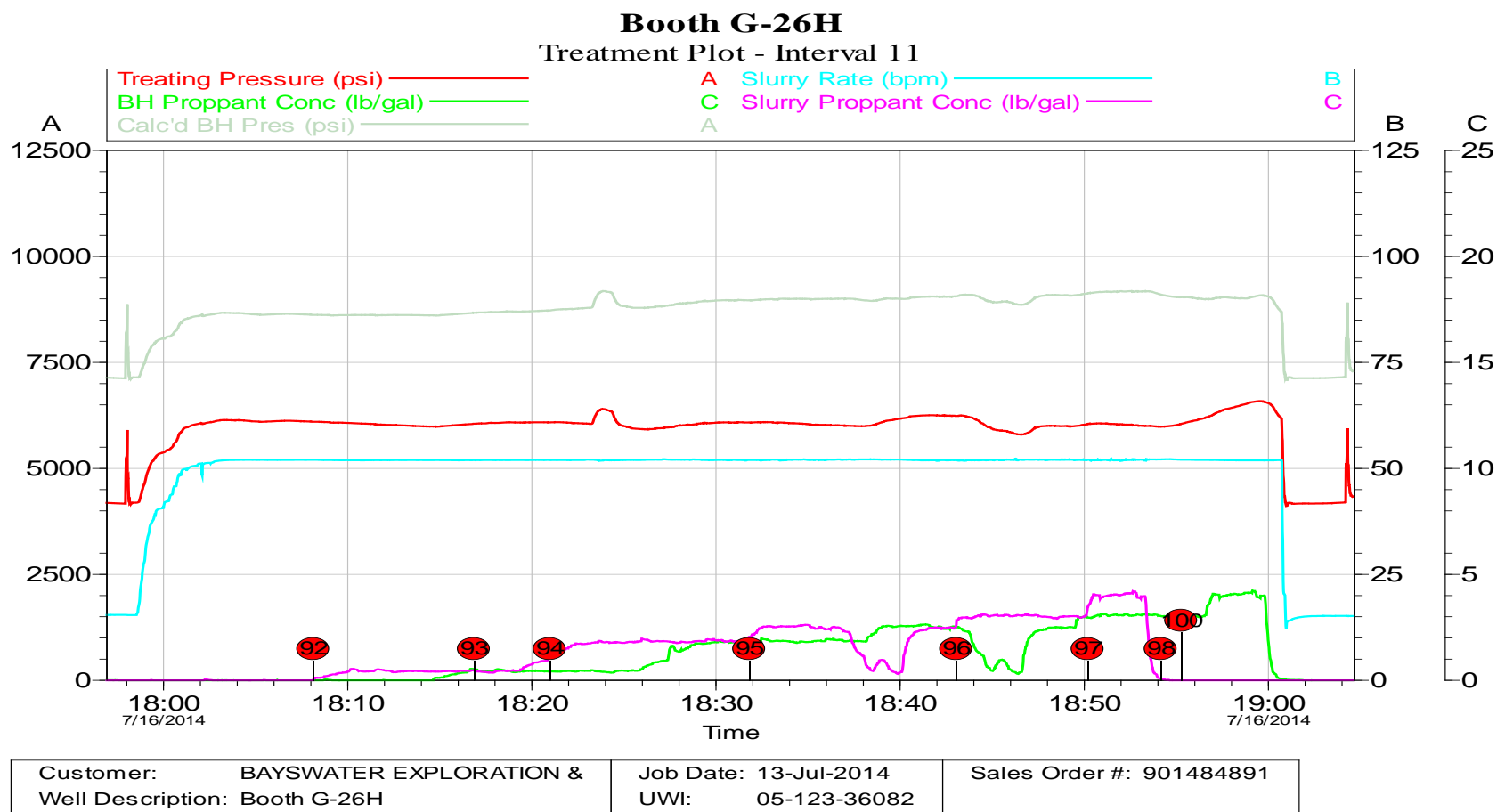


## 2.41 Net Pressure Plot - Booth G-26H - Interval 11

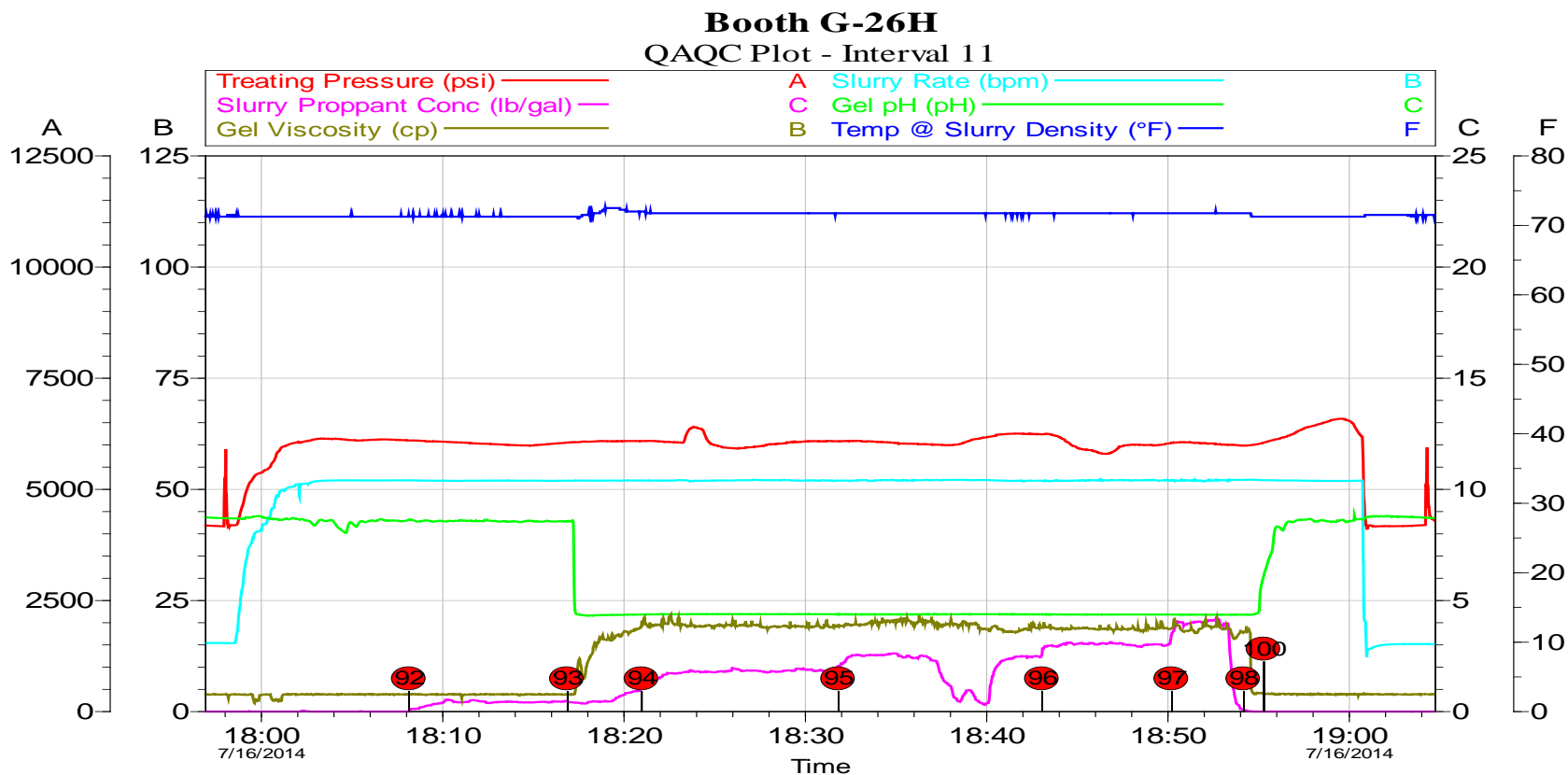


Customer: BAYSWATER EXPLORATION &	Job Date: 13-Jul-2014	Sales Order #: 901484891
Well Description: Booth G-26H	UWI: 05-123-36082	

## 2.42 Booth G-26H - Treatment Plot - Interval 11



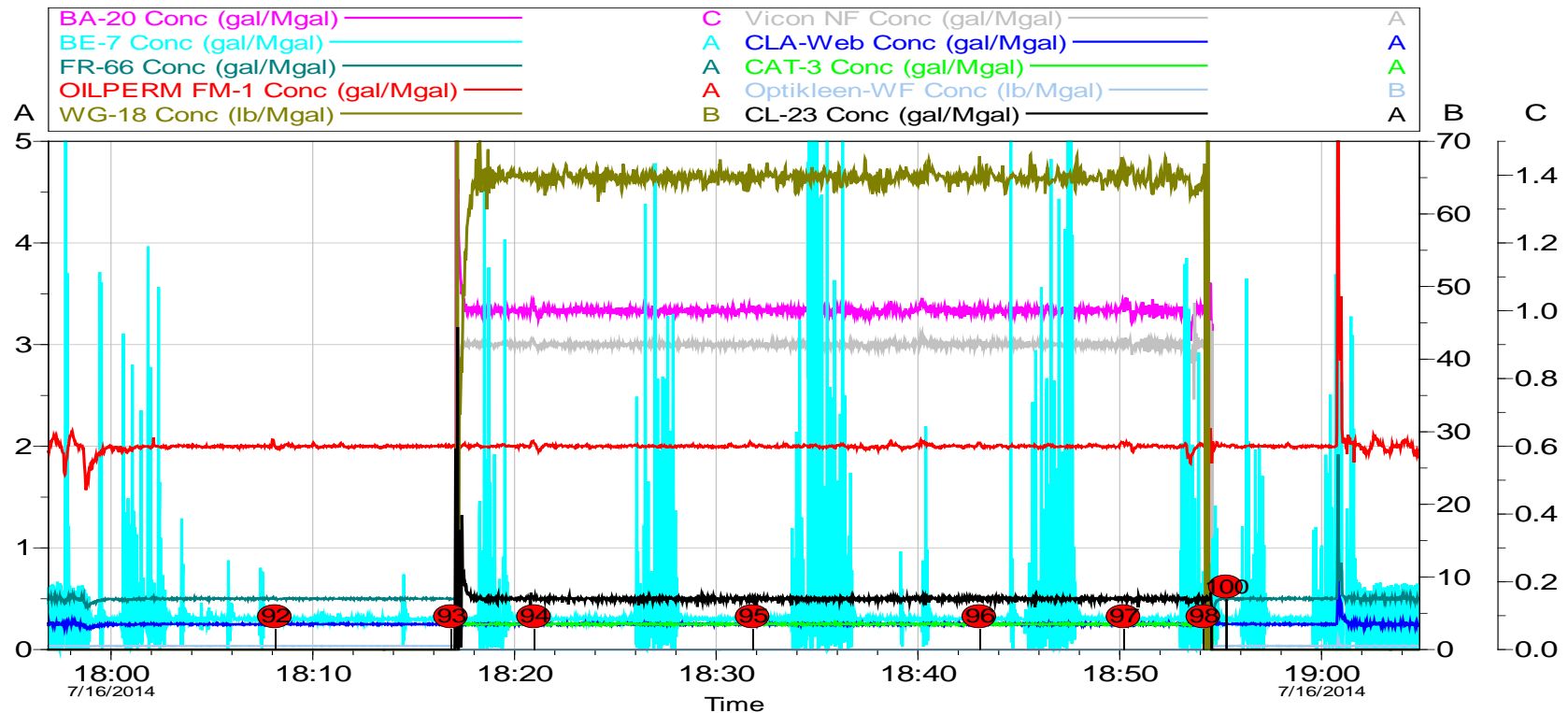
## 2.43 Booth G-26H - QAQC Plot - Interval 11



Customer: BAYSWATER EXPLORATION &	Job Date: 13-Jul-2014	Sales Order #: 901484891
Well Description: Booth G-26H	UWI: 05-123-36082	

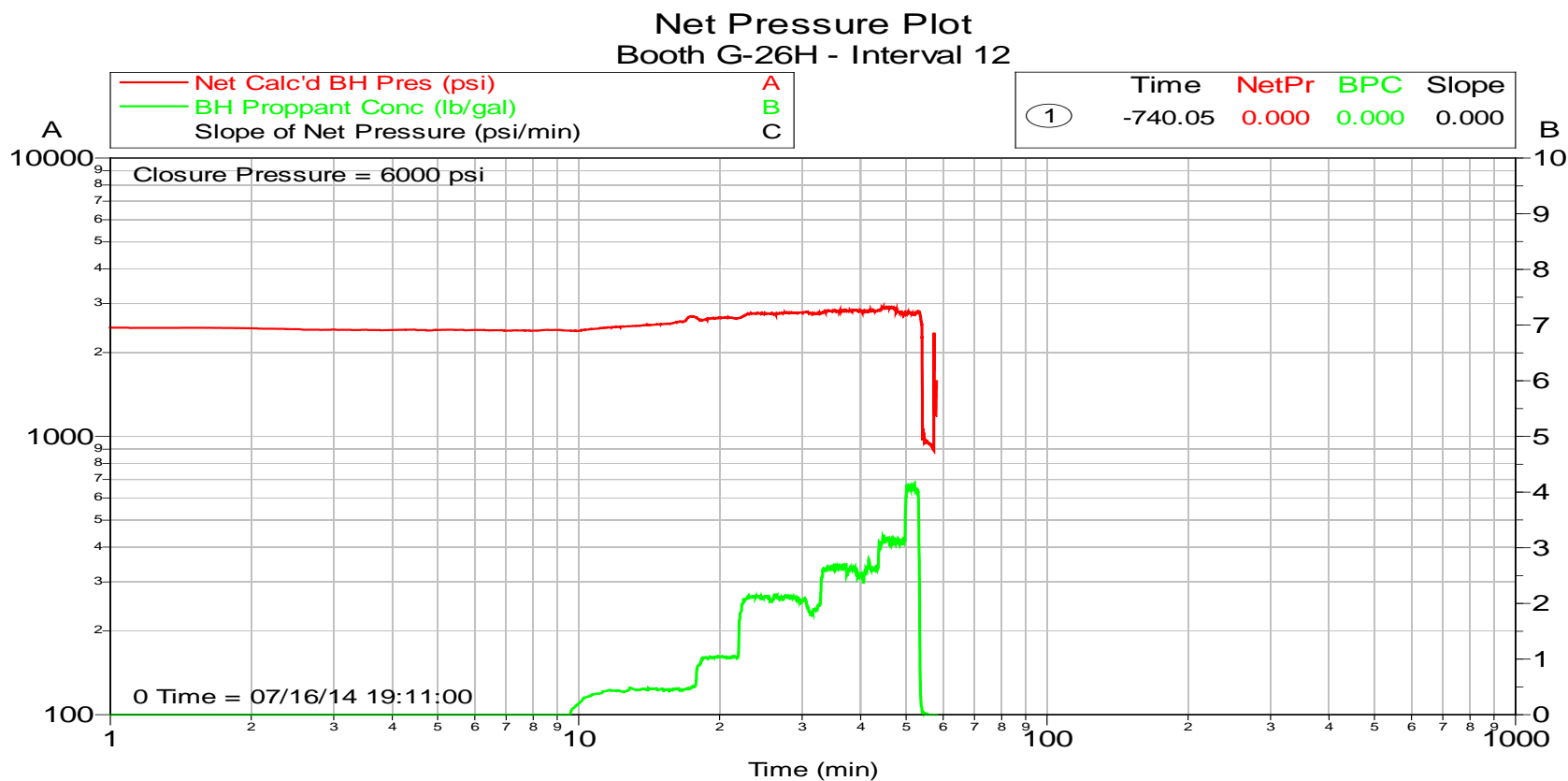
## 2.44 Booth G-26H - Chemical Plot - Interval 11

**Booth G-26H**  
Chemical Plot - Interval 11



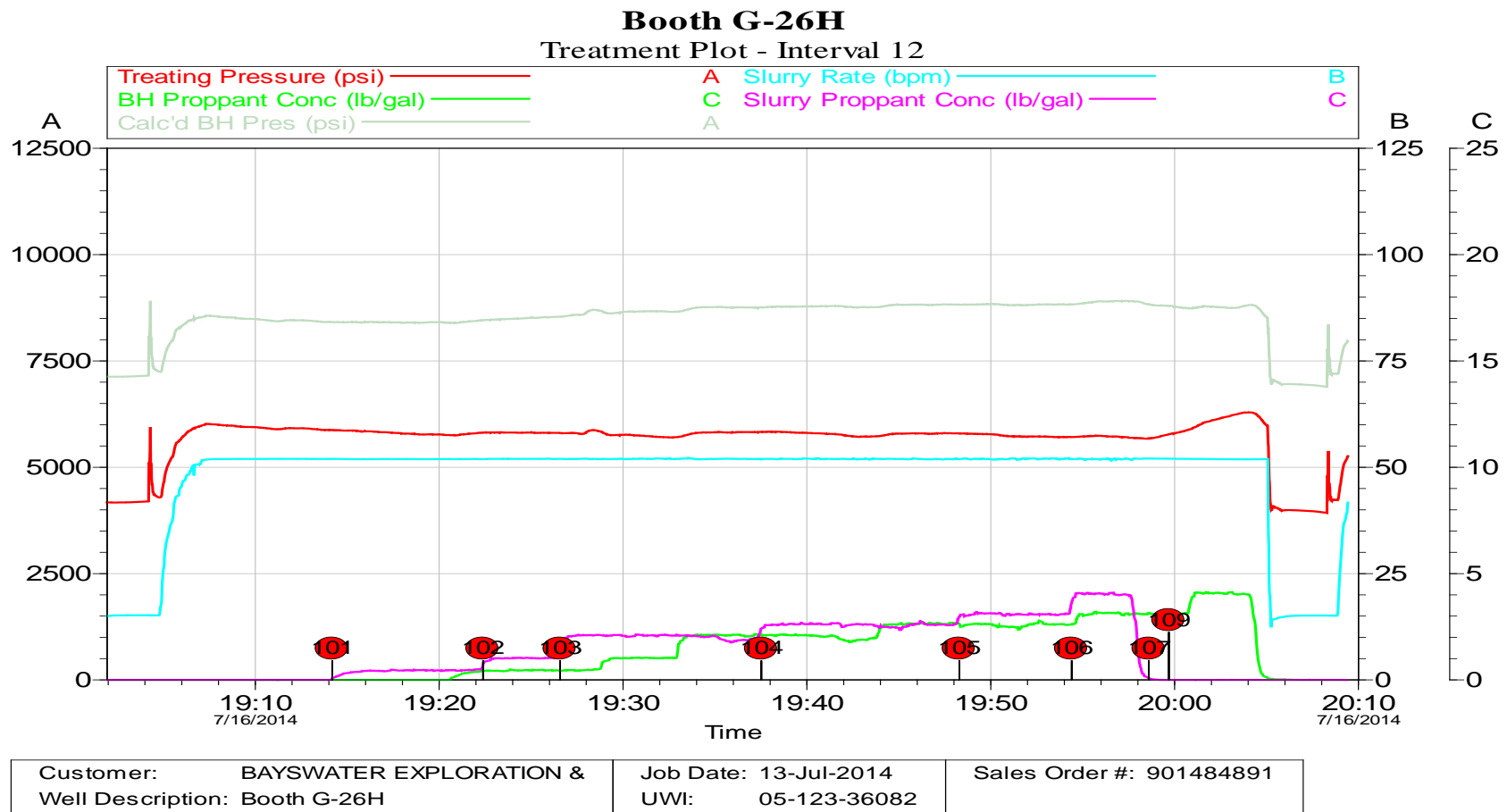
Customer:	BAYSWATER EXPLORATION &	Job Date:	13-Jul-2014	Sales Order #:	901484891
Well Description:	Booth G-26H	UWI:	05-123-36082		

## 2.45 Net Pressure Plot - Booth G-26H - Interval 12

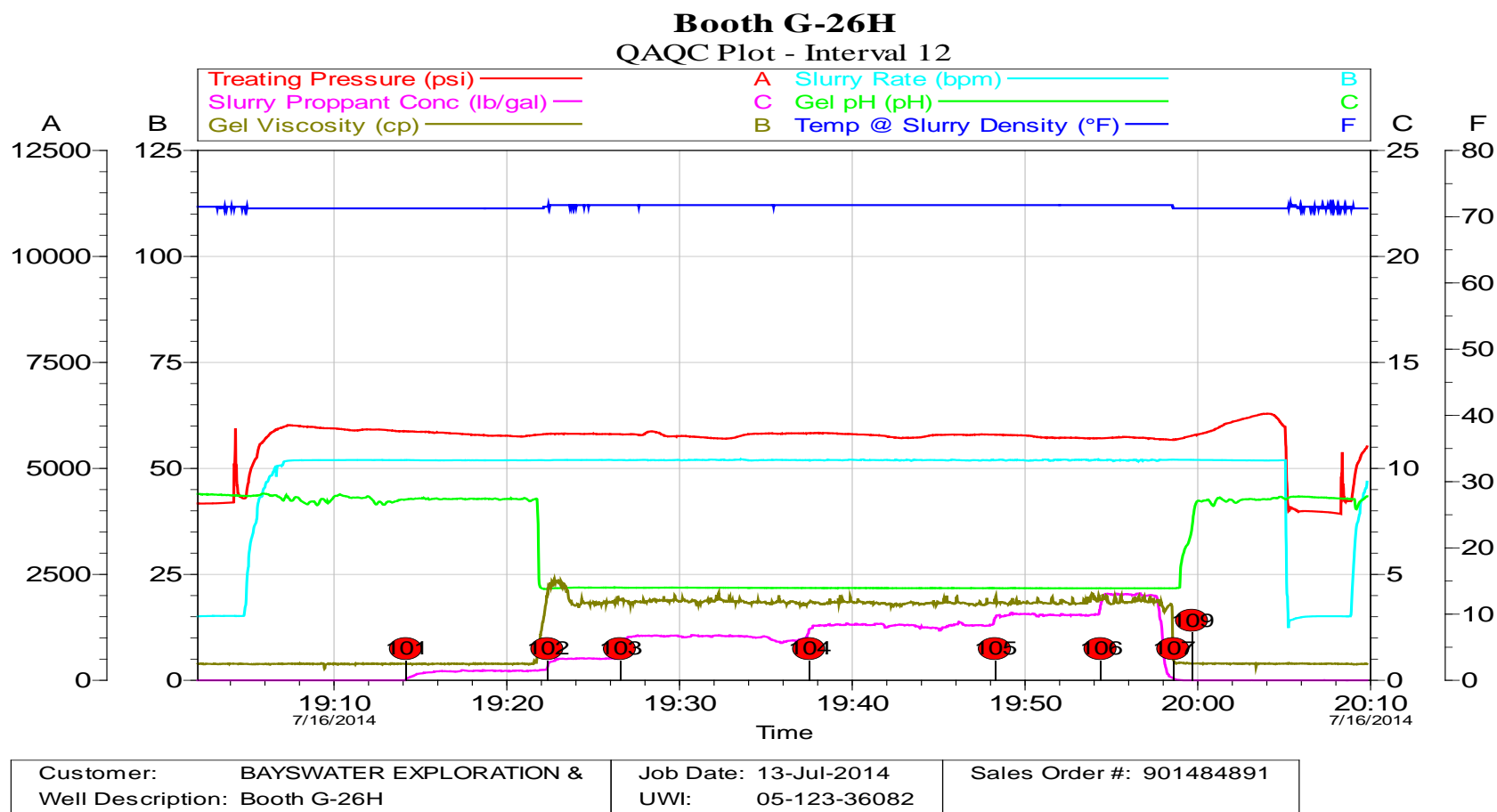


Customer: BAYSWATER EXPLORATION &	Job Date: 13-Jul-2014	Sales Order #: 901484891
Well Description: Booth G-26H	UWI: 05-123-36082	

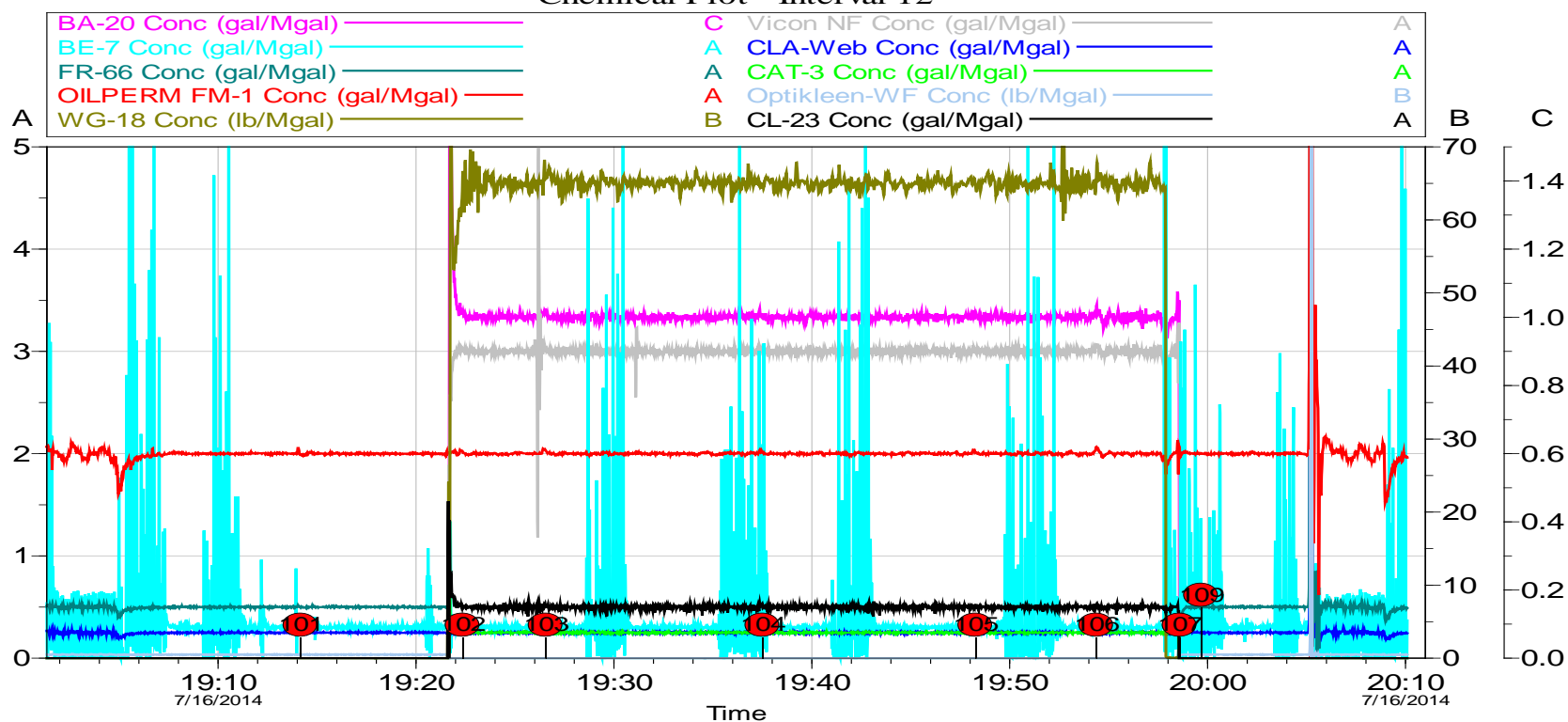
## 2.46 Booth G-26H - Treatment Plot - Interval 12



## 2.47 Booth G-26H - QAQC Plot - Interval 12

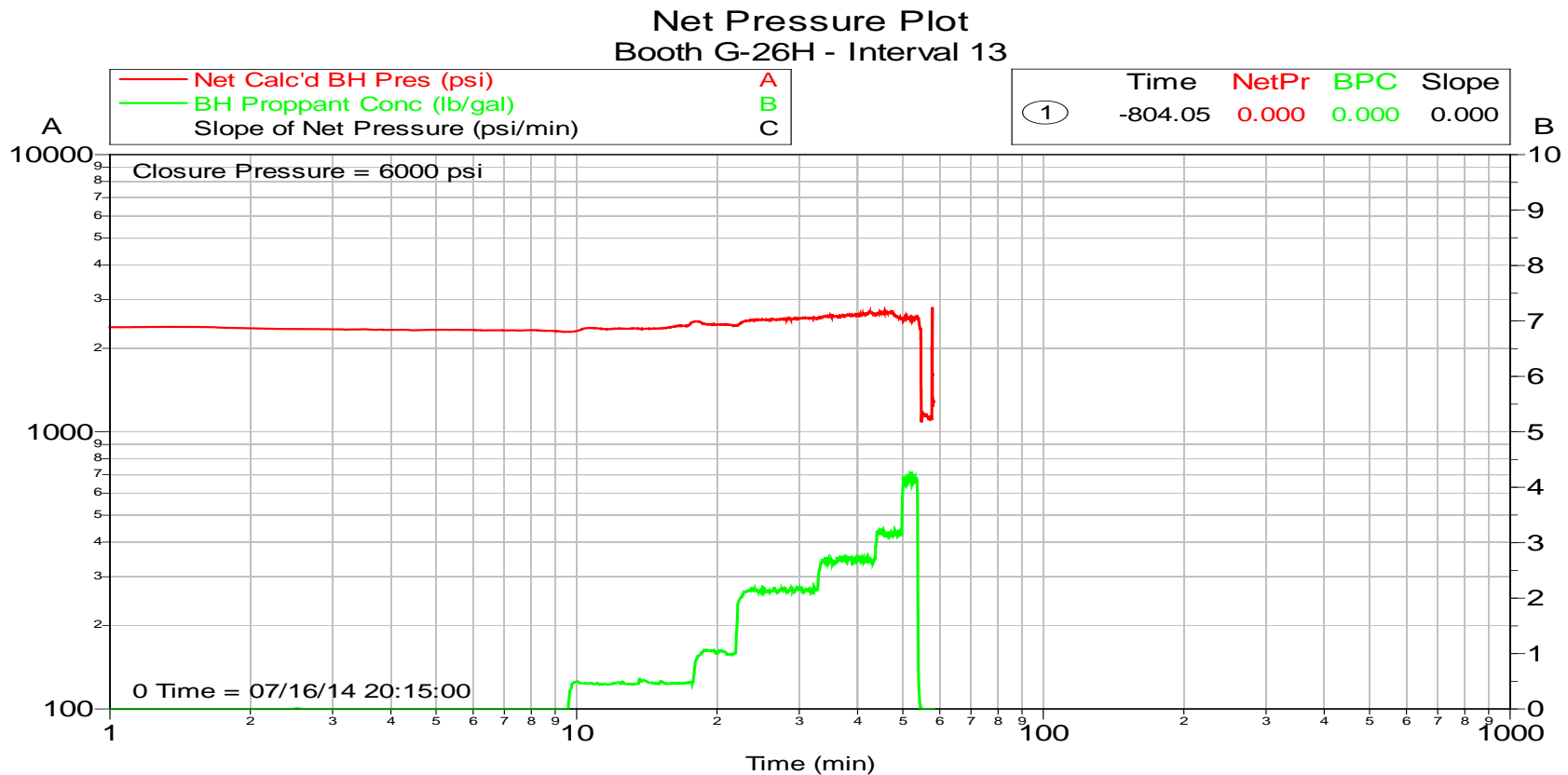


**Booth G-26H**  
Chemical Plot - Interval 12



Customer: BAYSWATER EXPLORATION & Well Description: Booth G-26H	Job Date: 13-Jul-2014 UWI: 05-123-36082	Sales Order #: 901484891
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## 2.49 Net Pressure Plot - Booth G-26H - Interval 13

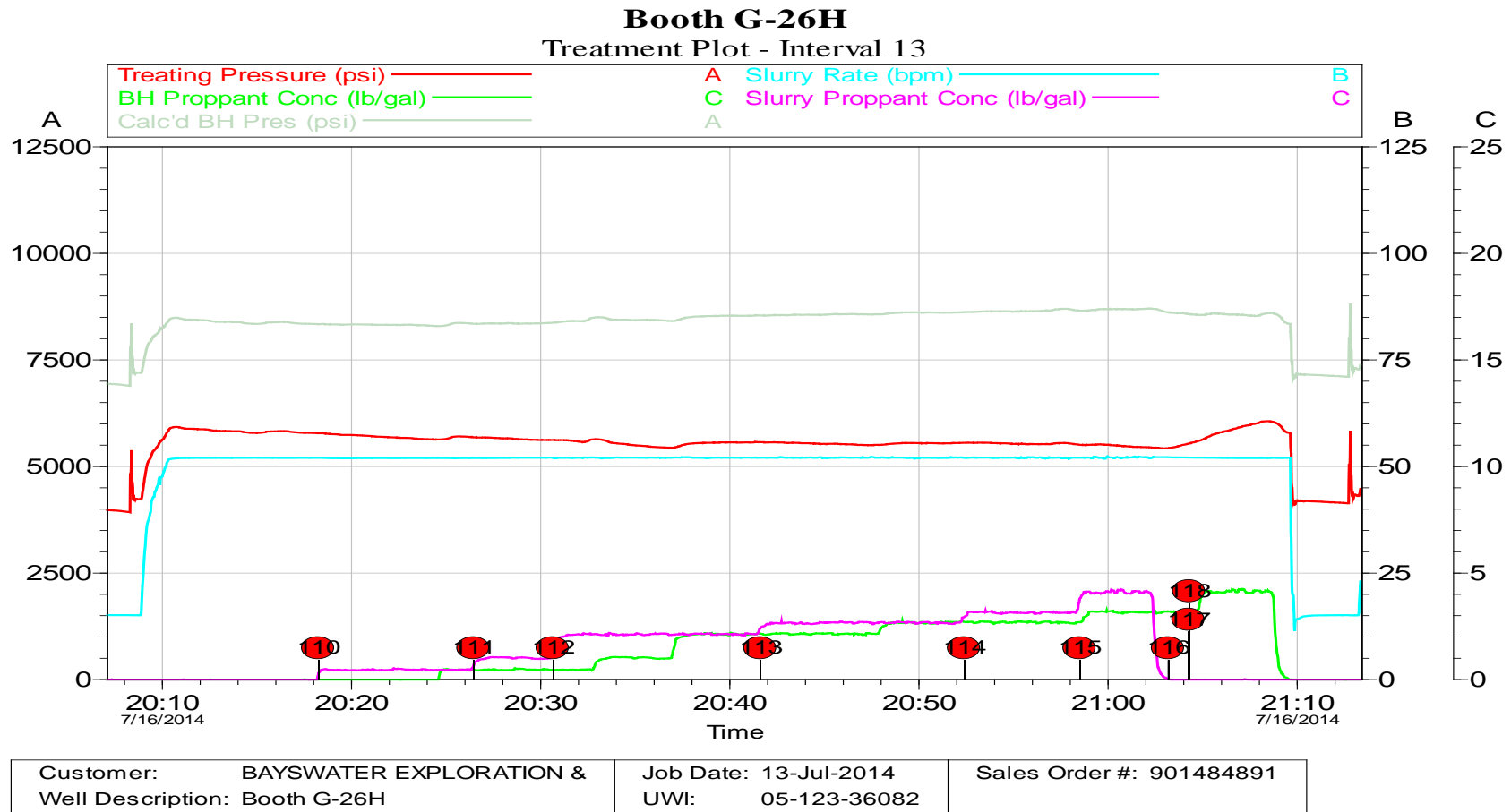


Customer: BAYSWATER EXPLORATION &  
Well Description: Booth G-26H

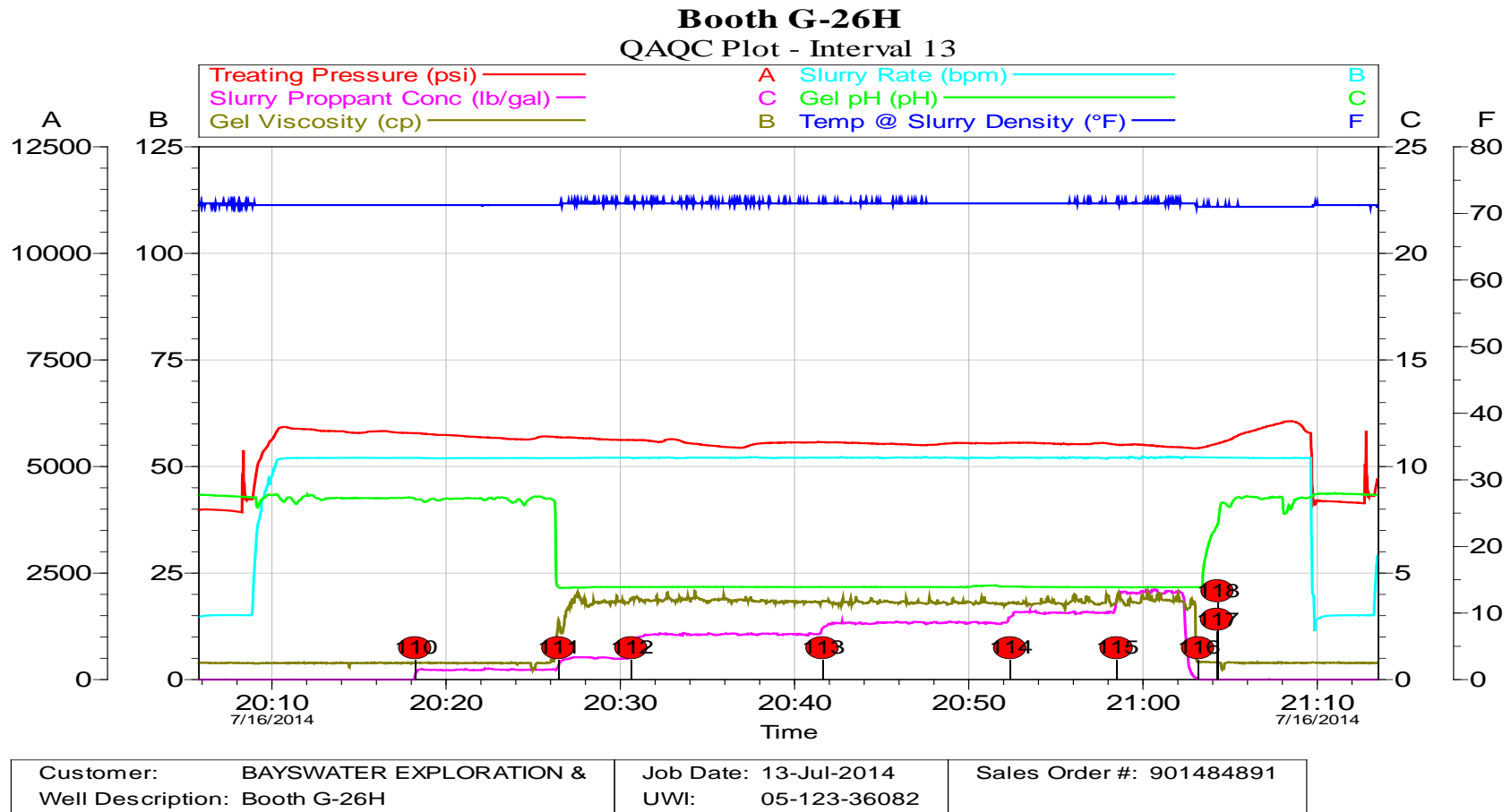
Job Date: 13-Jul-2014  
UWI: 05-123-36082

Sales Order #: 901484891

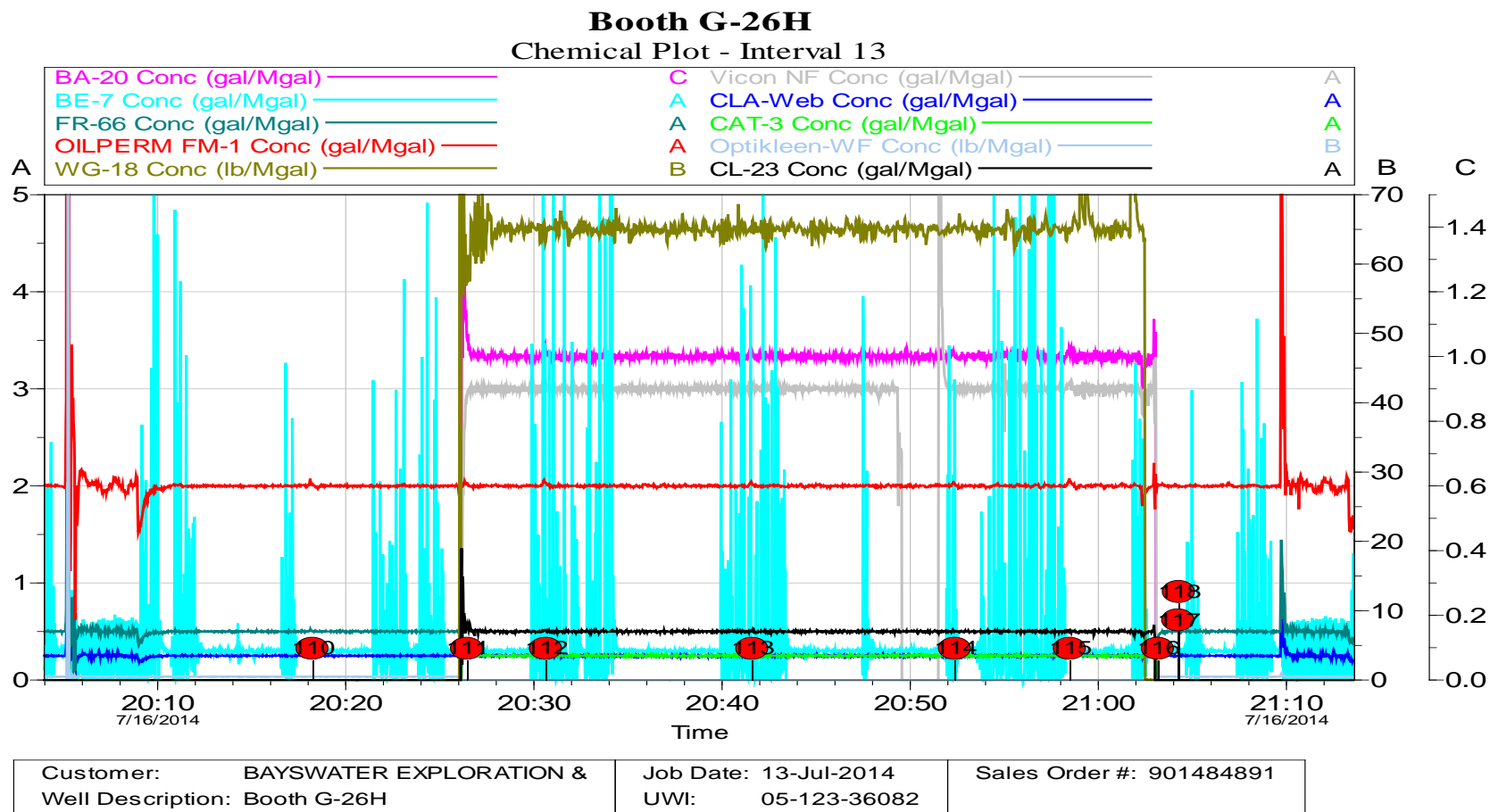
## 2.50 Booth G-26H - Treatment Plot - Interval 13



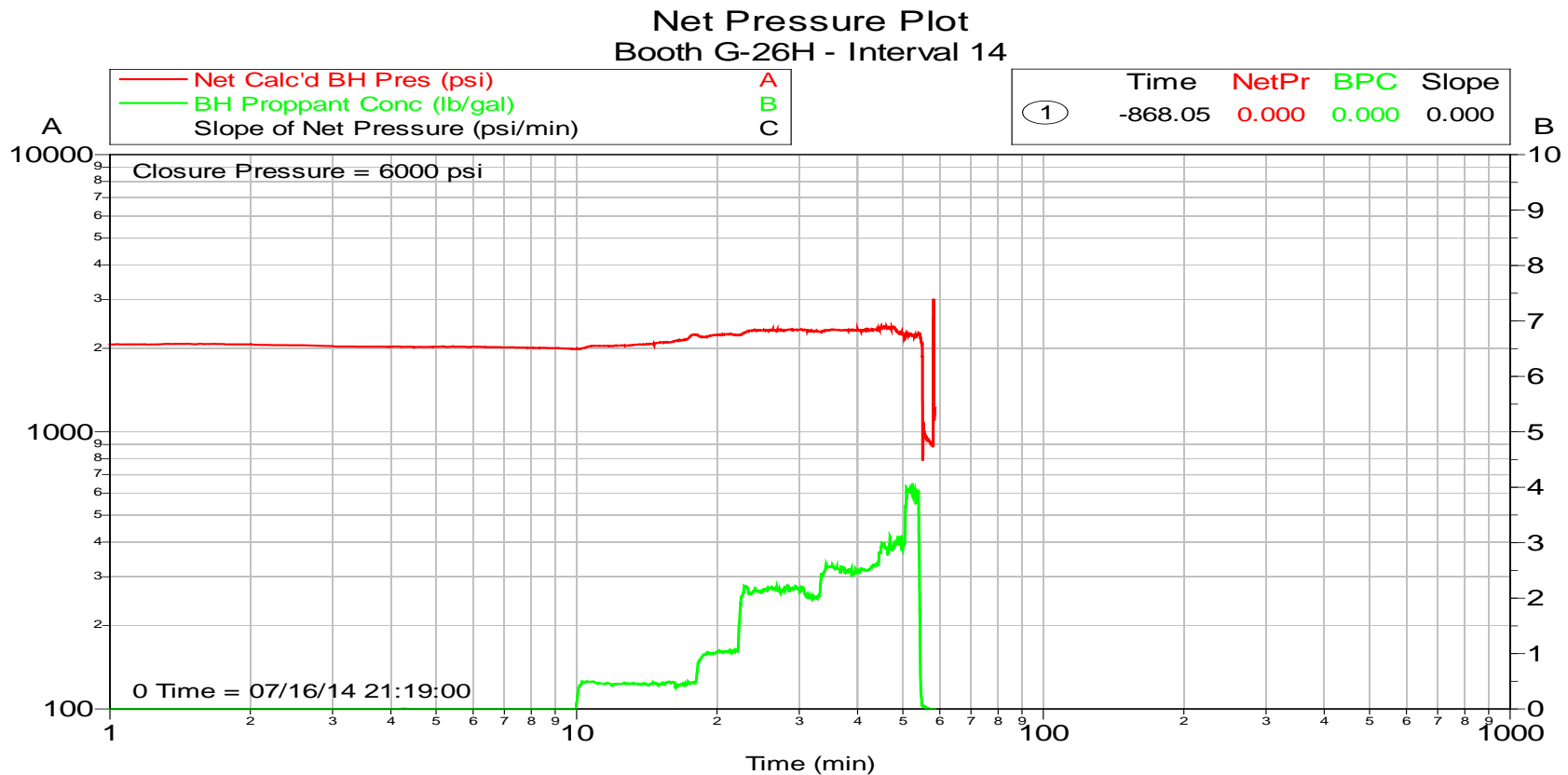
## 2.51 Booth G-26H - QAQC Plot - Interval 13



## 2.52 Booth G-26H - Chemical Plot - Interval 13



## 2.53 Net Pressure Plot - Booth G-26H - Interval 14

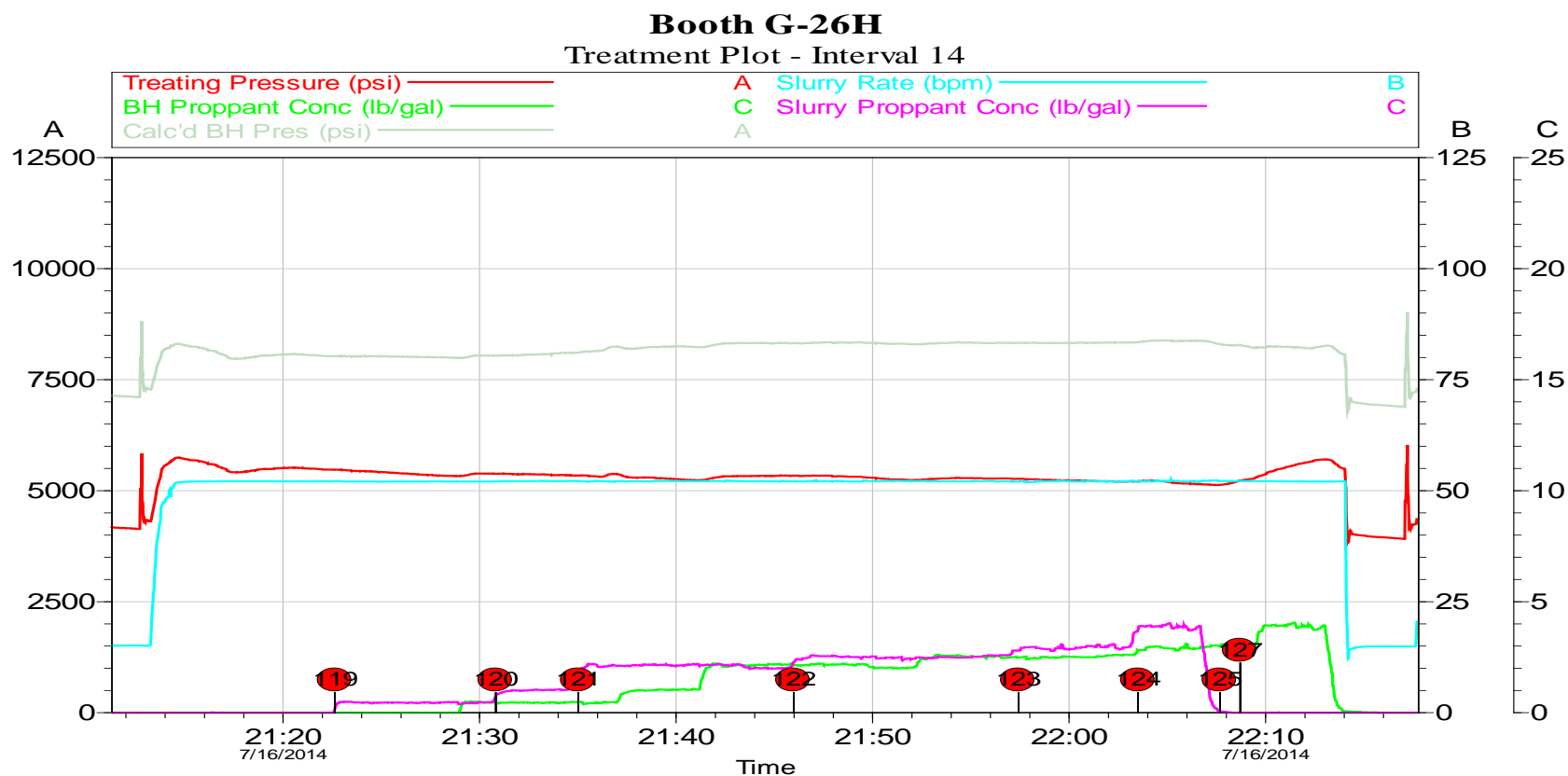


Customer: BAYSWATER EXPLORATION &  
Well Description: Booth G-26H

Job Date: 13-Jul-2014  
UWI: 05-123-36082

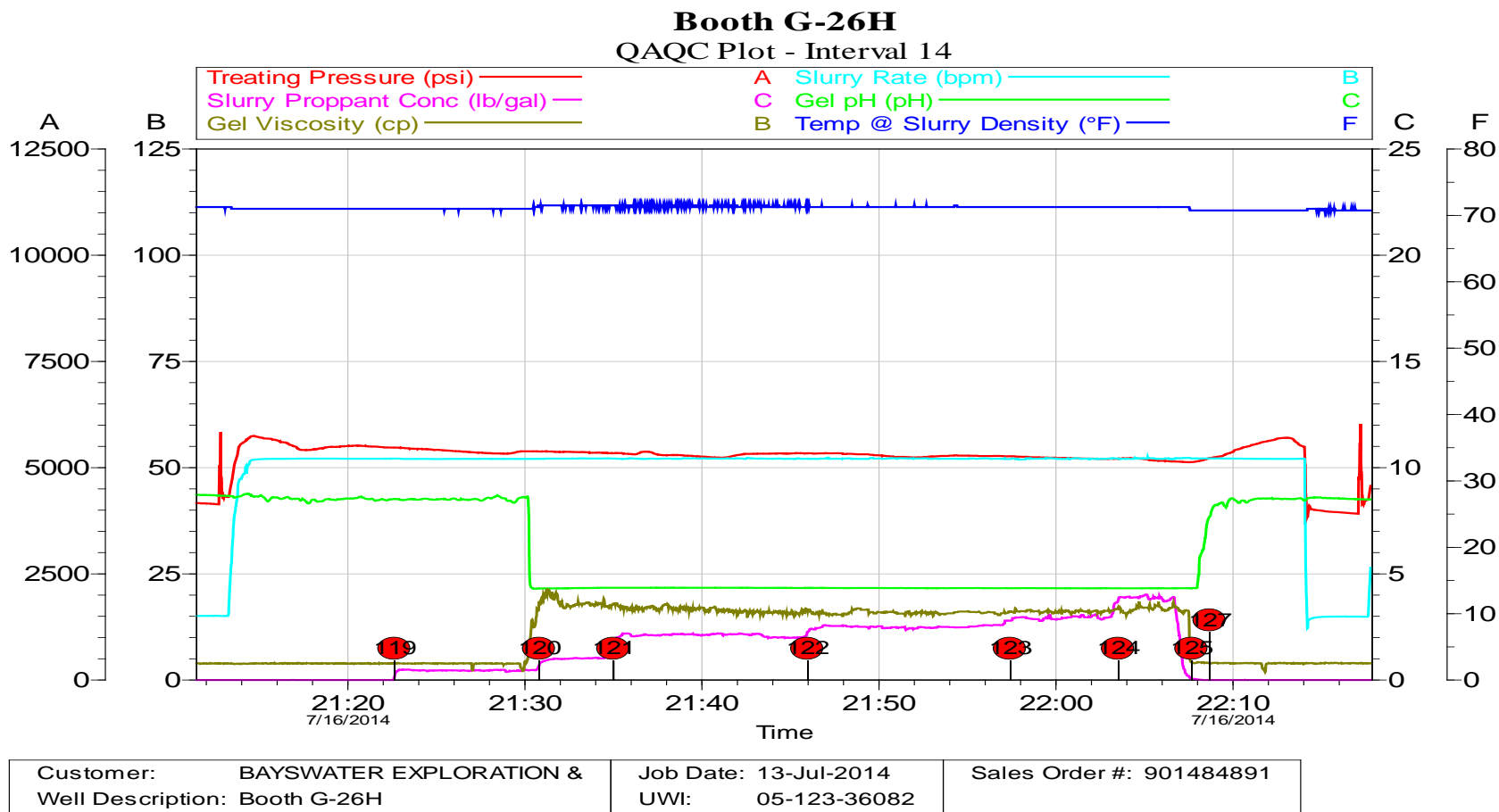
Sales Order #: 901484891

## 2.54 Booth G-26H - Treatment Plot - Interval 14

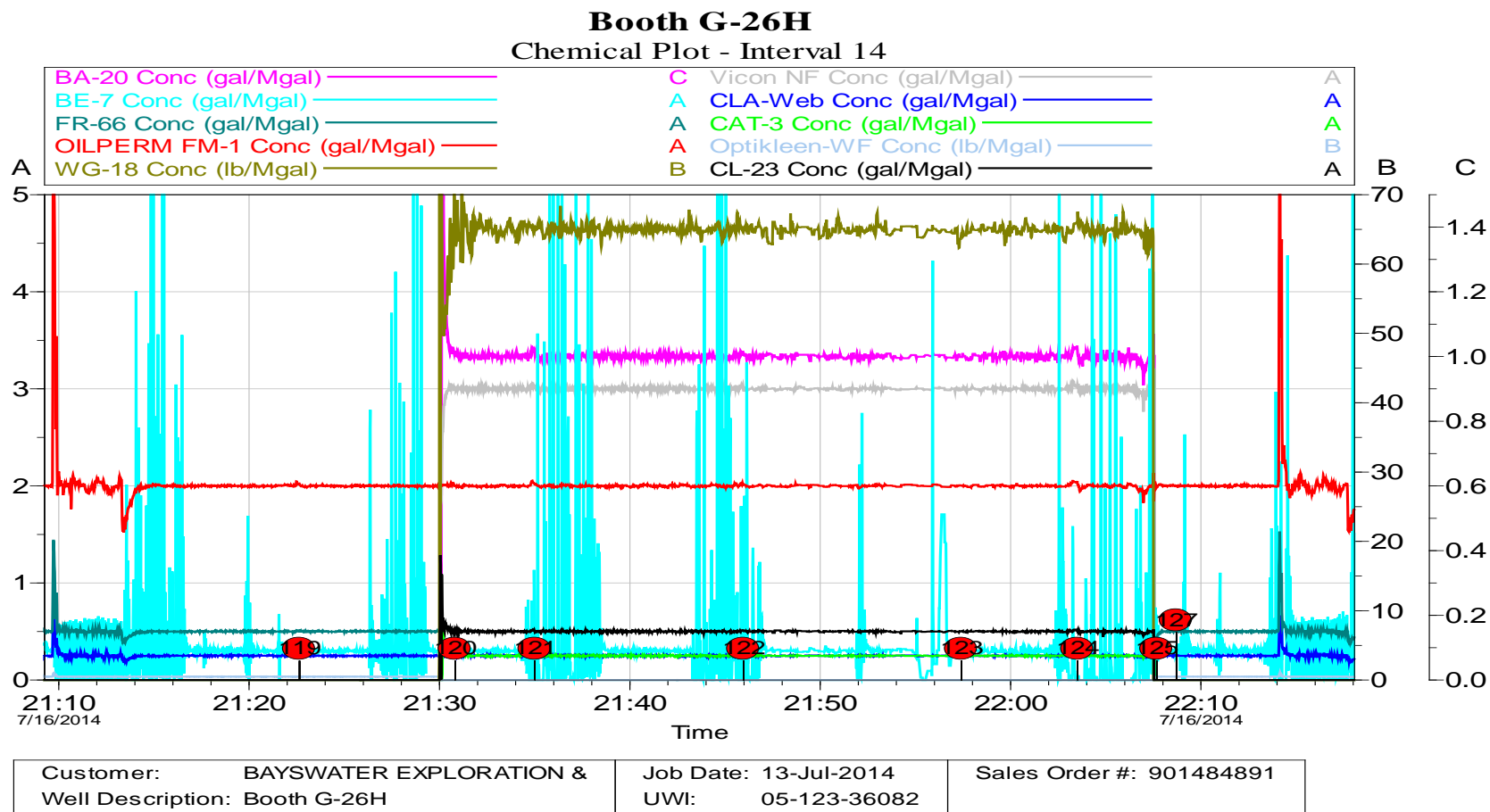


Customer: BAYSWATER EXPLORATION &	Job Date: 13-Jul-2014	Sales Order #: 901484891
Well Description: Booth G-26H	UWI: 05-123-36082	

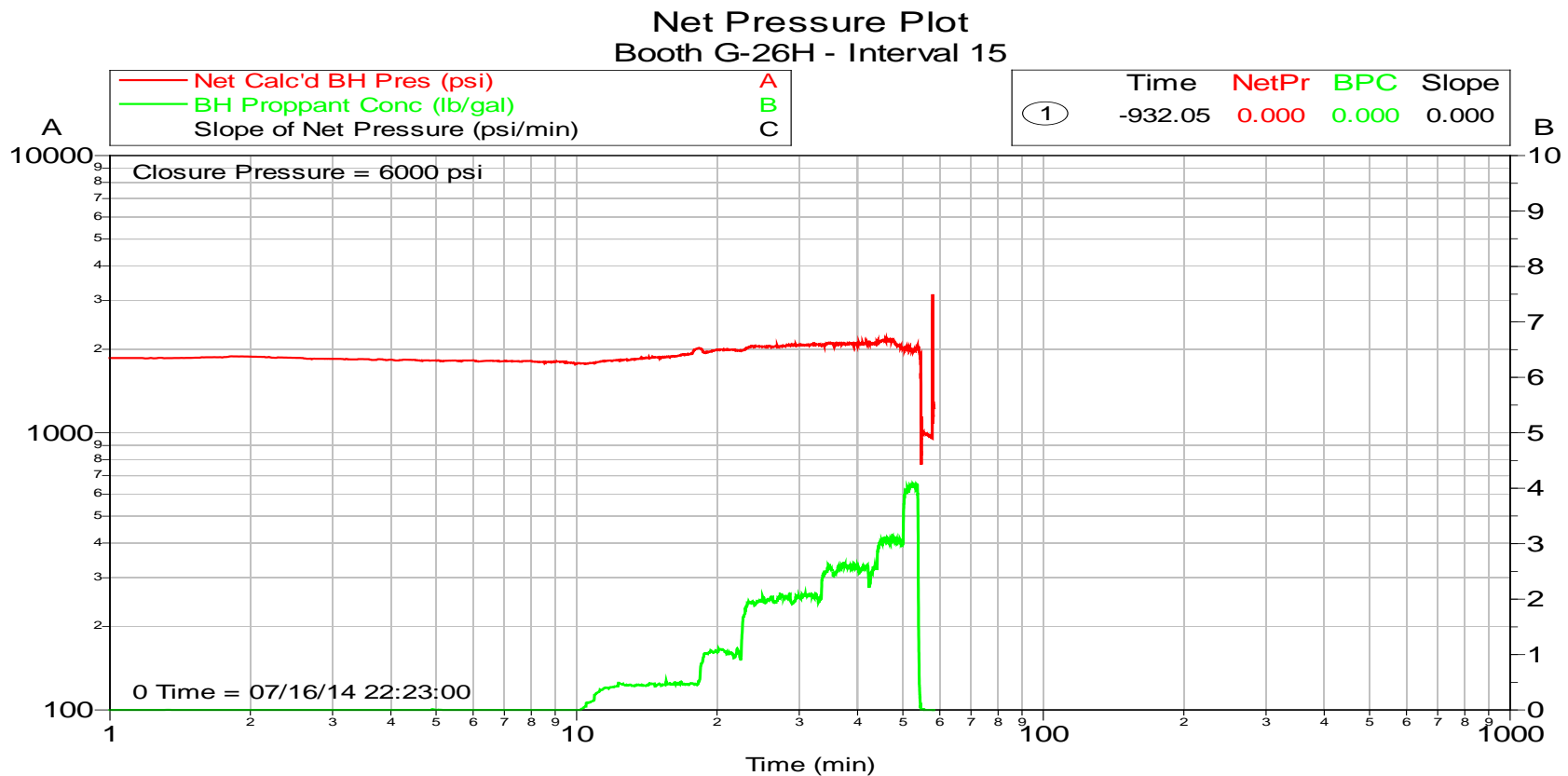
## 2.55 Booth G-26H - QAQC Plot - Interval 14



## 2.56 Booth G-26H - Chemical Plot - Interval 14



## 2.57 Net Pressure Plot - Booth G-26H - Interval 15

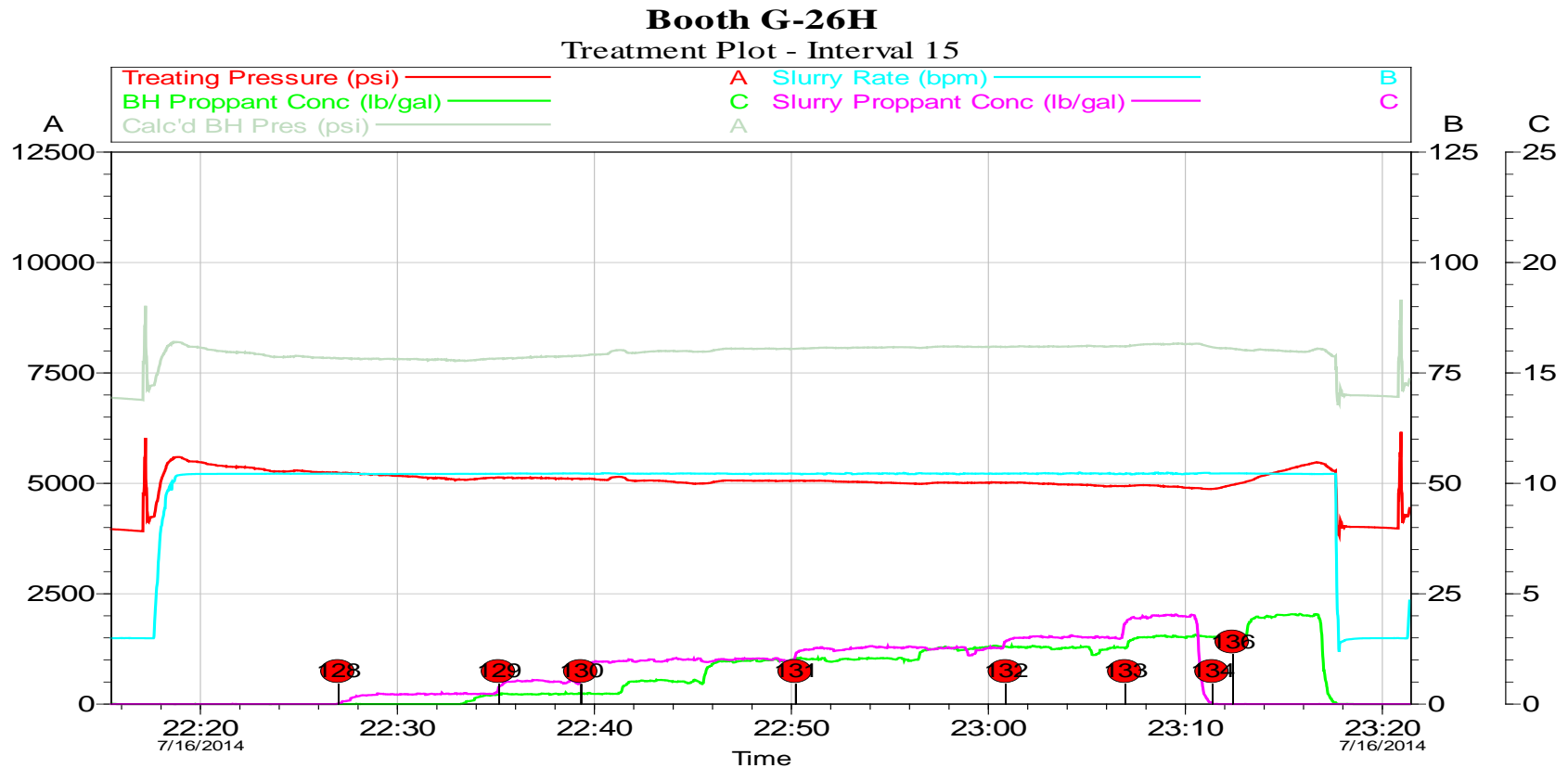


Customer: BAYSWATER EXPLORATION &  
Well Description: Booth G-26H

Job Date: 13-Jul-2014  
UWI: 05-123-36082

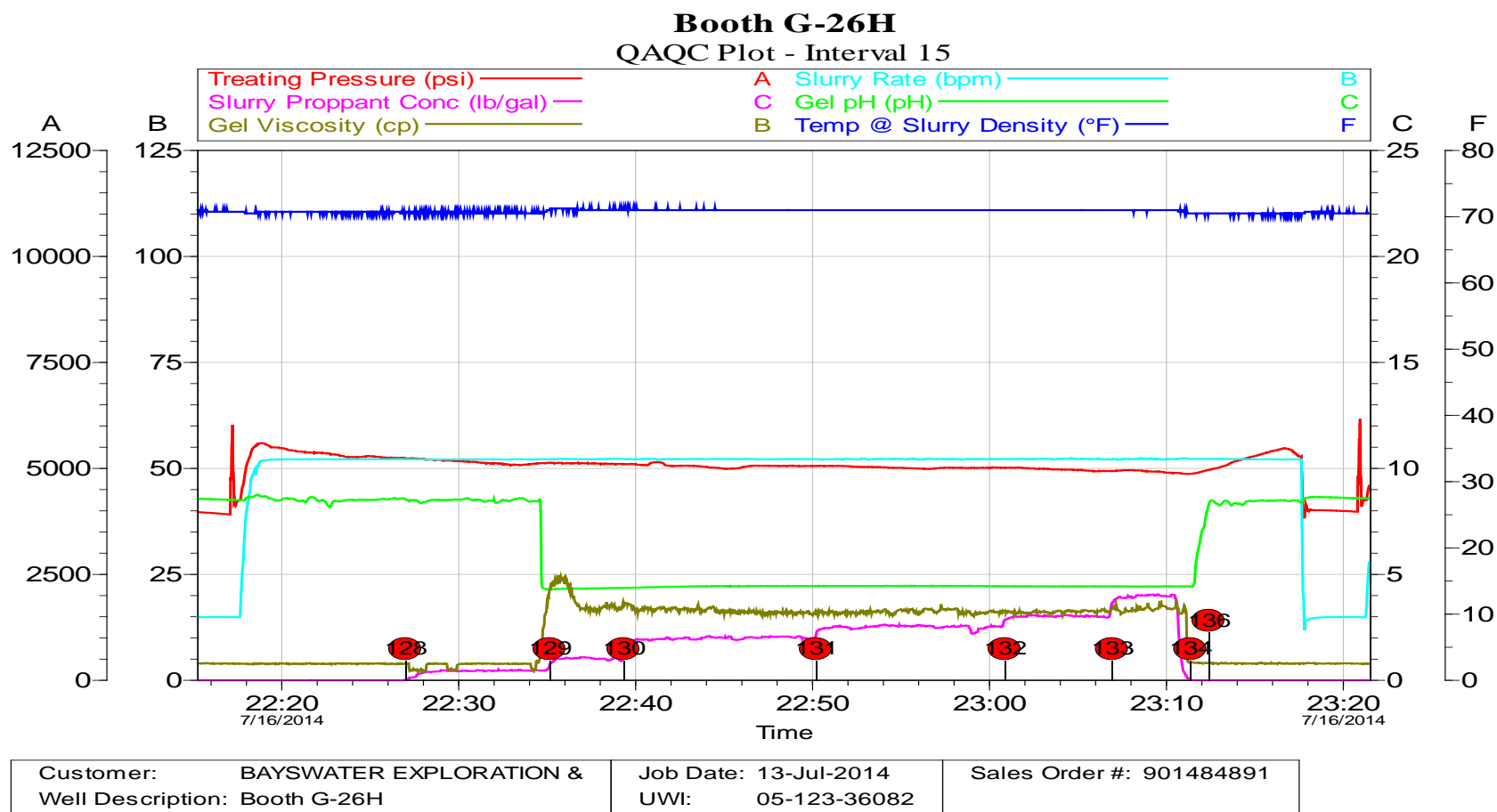
Sales Order #: 901484891

## 2.58 Booth G-26H - Treatment Plot - Interval 15

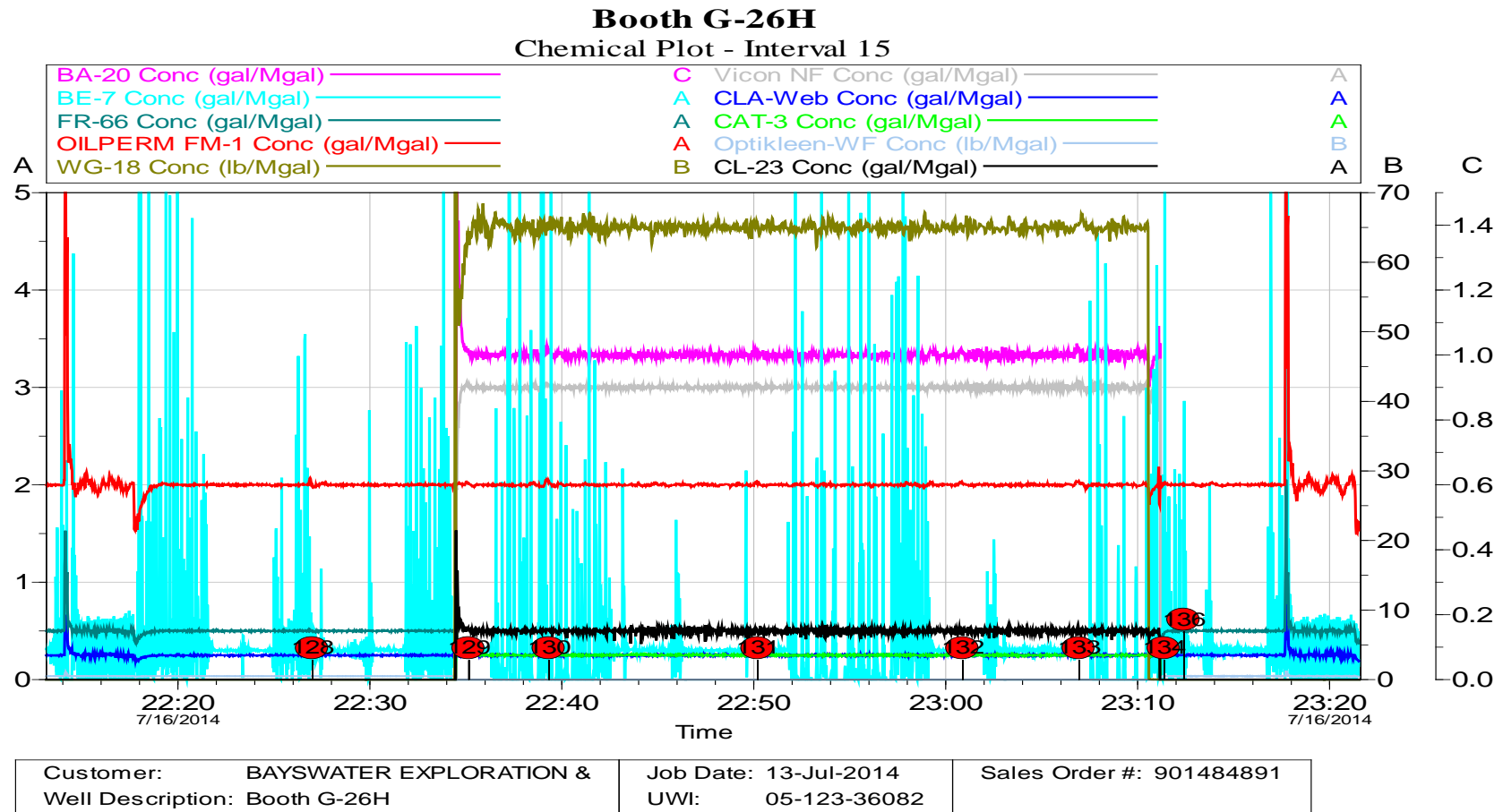


Customer: BAYSWATER EXPLORATION &	Job Date: 13-Jul-2014	Sales Order #: 901484891
Well Description: Booth G-26H	UWI: 05-123-36082	

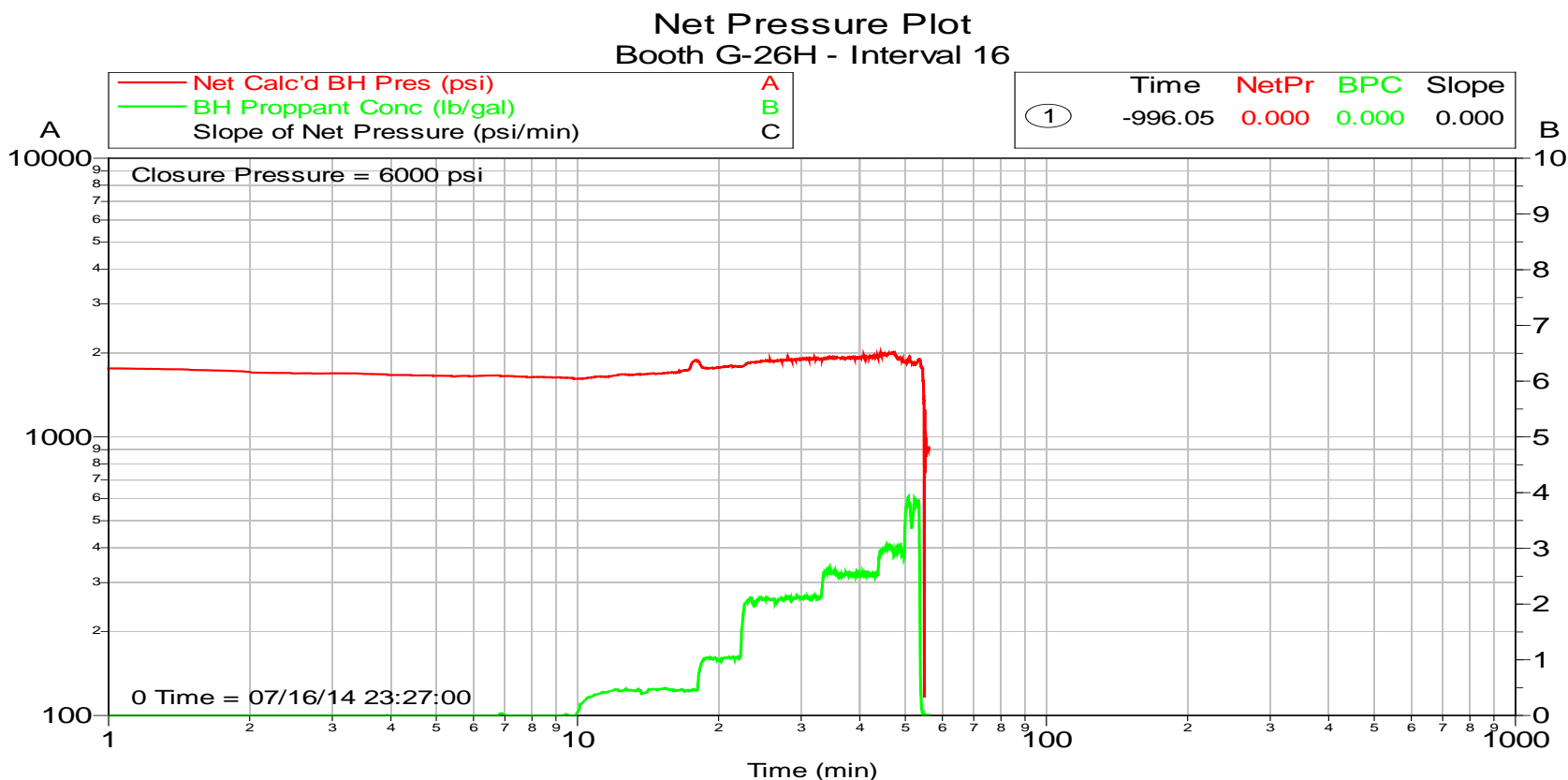
## 2.59 Booth G-26H - QAQC Plot - Interval 15



## 2.60 Booth G-26H - Chemical Plot - Interval 15

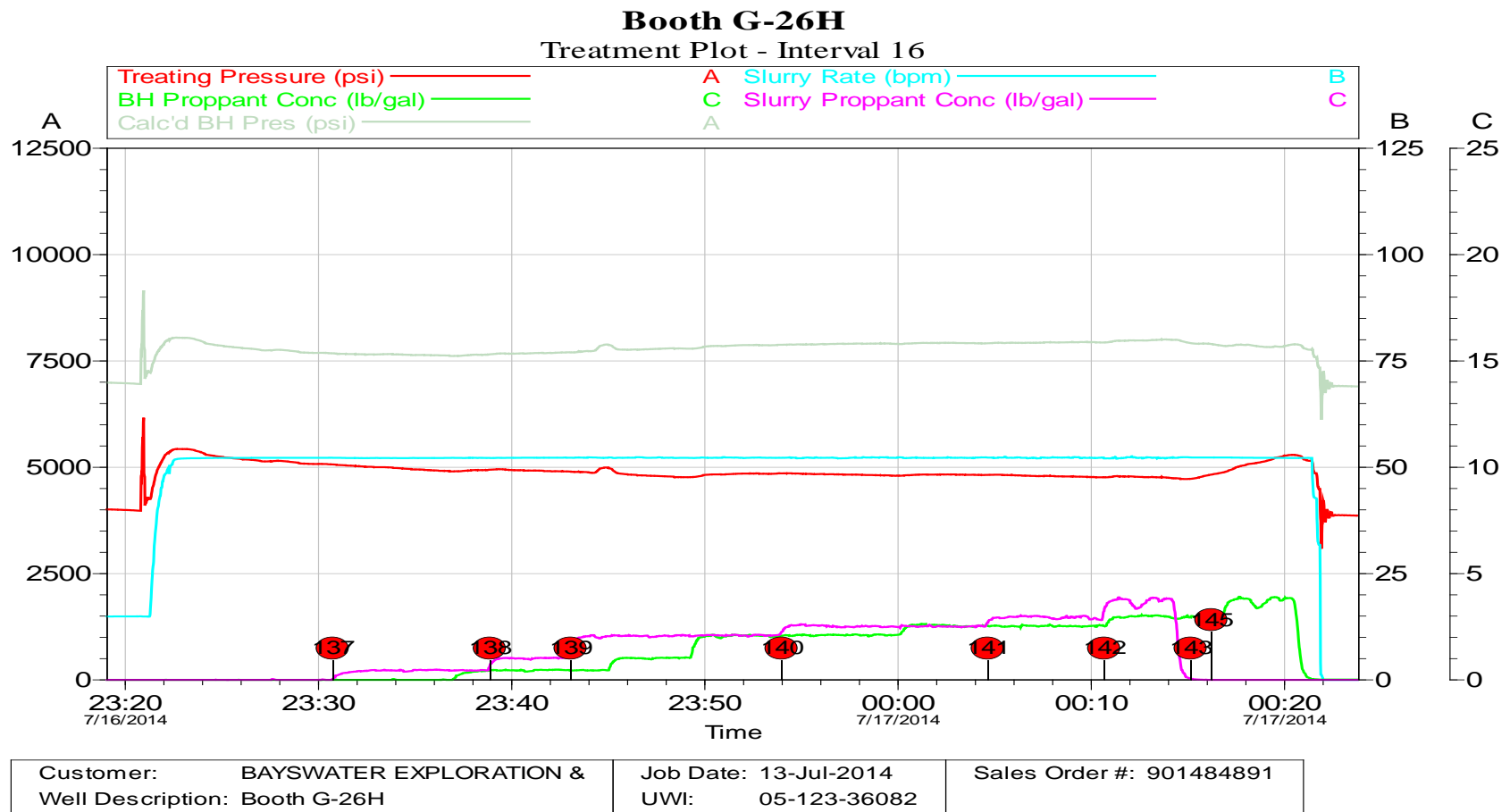


## 2.61 Net Pressure Plot - Booth G-26H - Interval 16

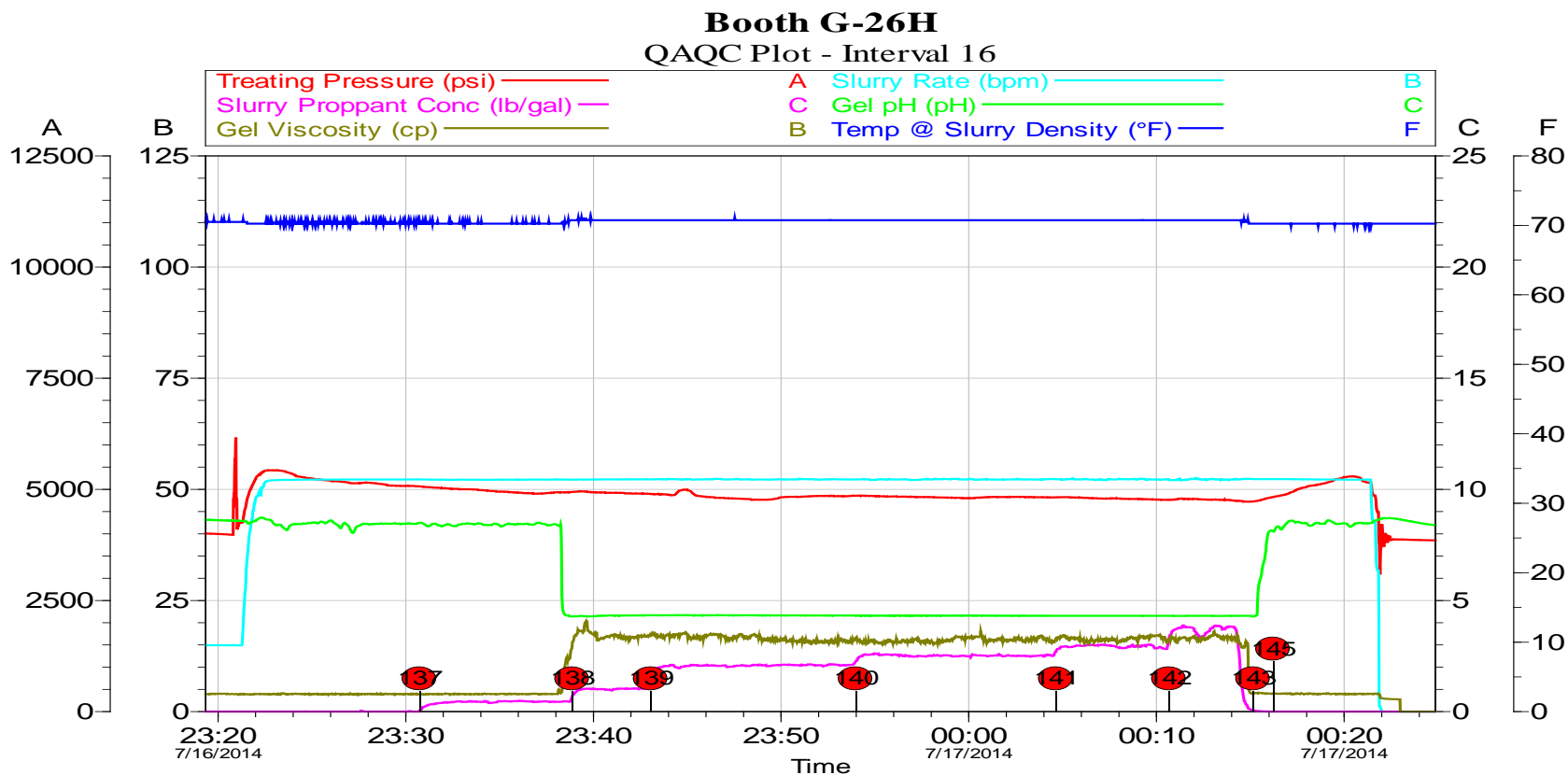


Customer: BAYSWATER EXPLORATION &	Job Date: 13-Jul-2014	Sales Order #: 901484891
Well Description: Booth G-26H	UWI: 05-123-36082	

## 2.62 Booth G-26H - Treatment Plot - Interval 16

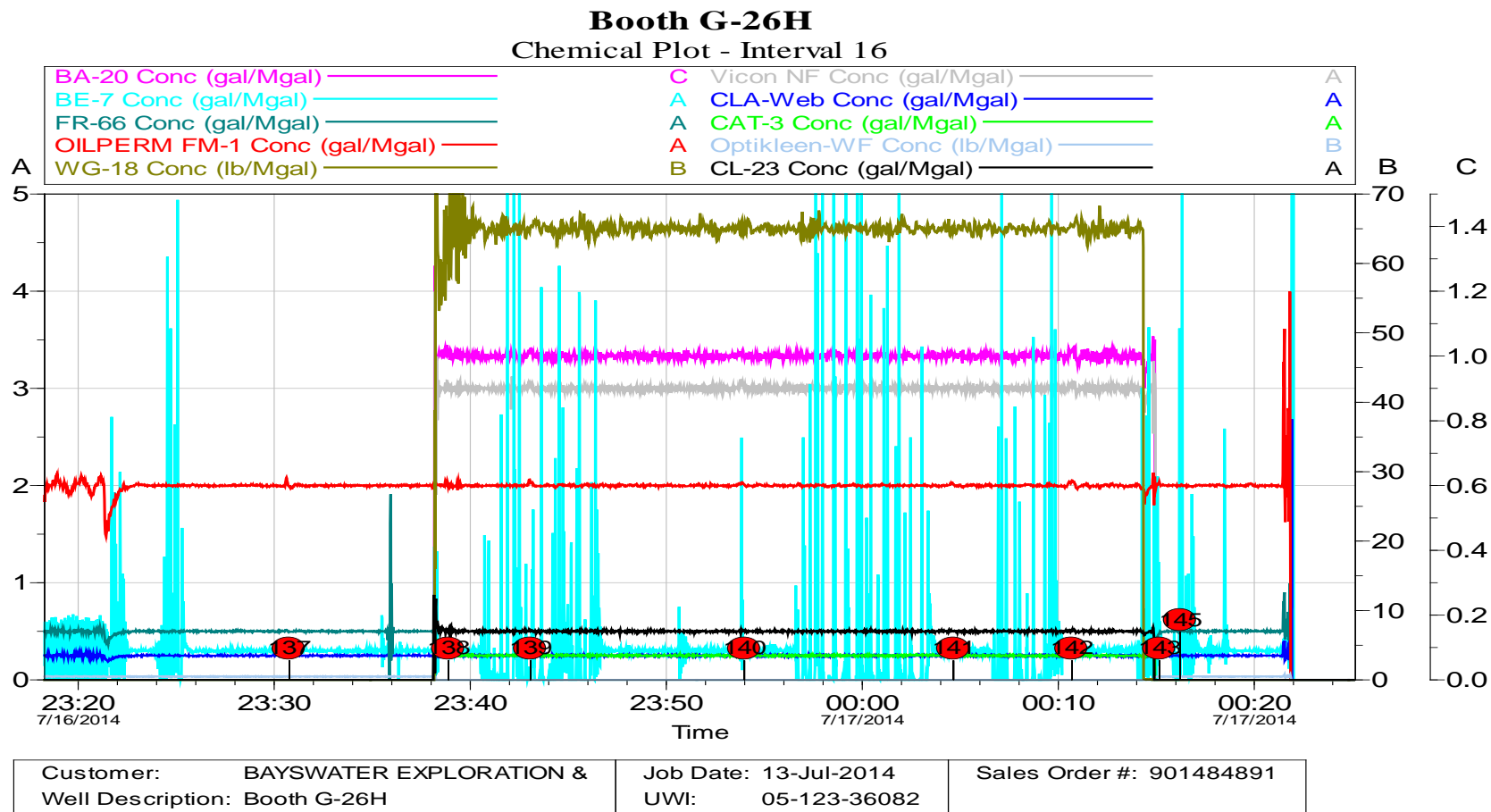


## 2.63 Booth G-26H - QAQC Plot - Interval 16

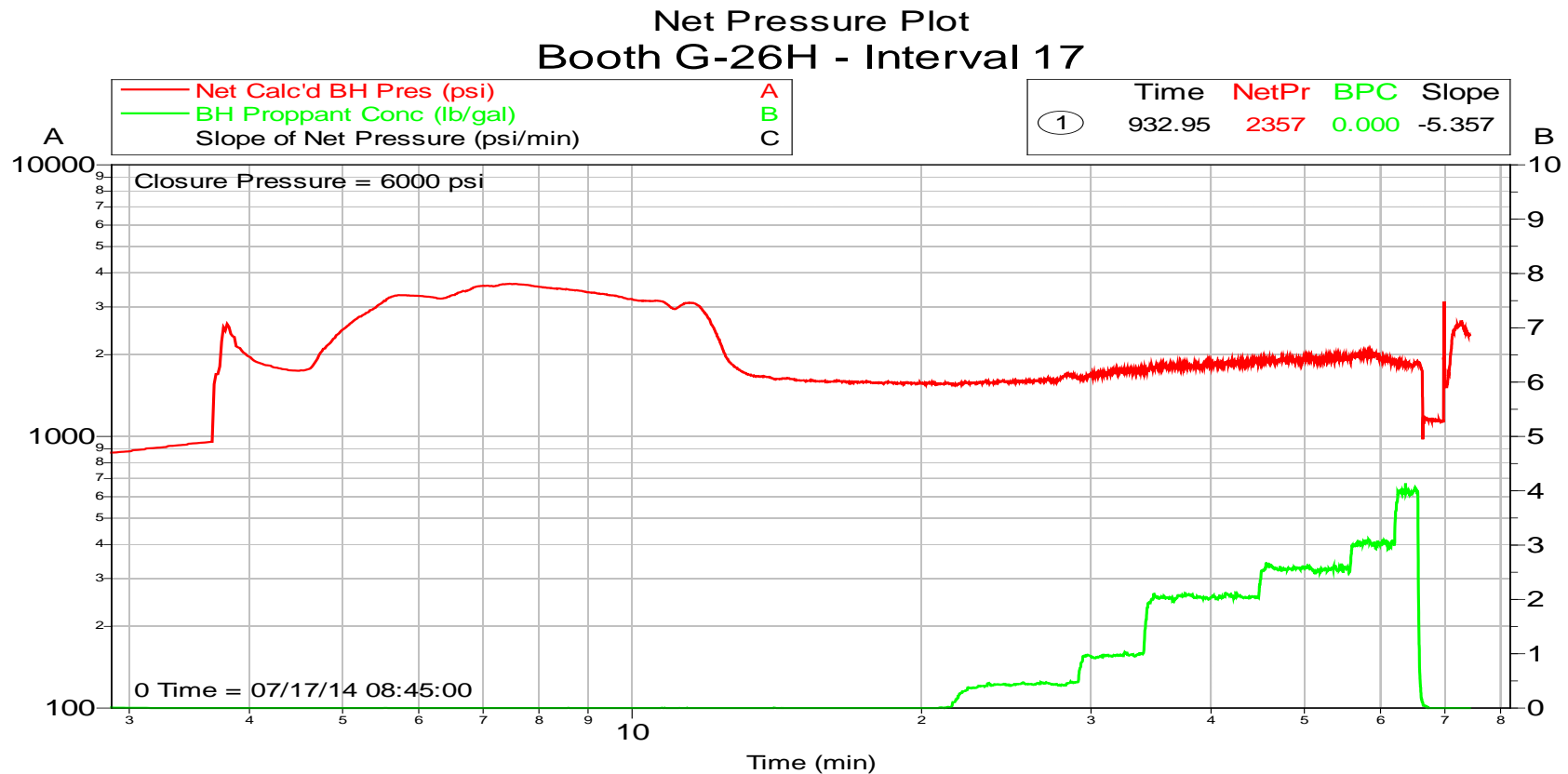


Customer: BAYSWATER EXPLORATION &	Job Date: 13-Jul-2014	Sales Order #: 901484891
Well Description: Booth G-26H	UWI: 05-123-36082	

## 2.64 Booth G-26H - Chemical Plot - Interval 16



## 2.65 Net Pressure Plot - Booth G-26H - Interval 17

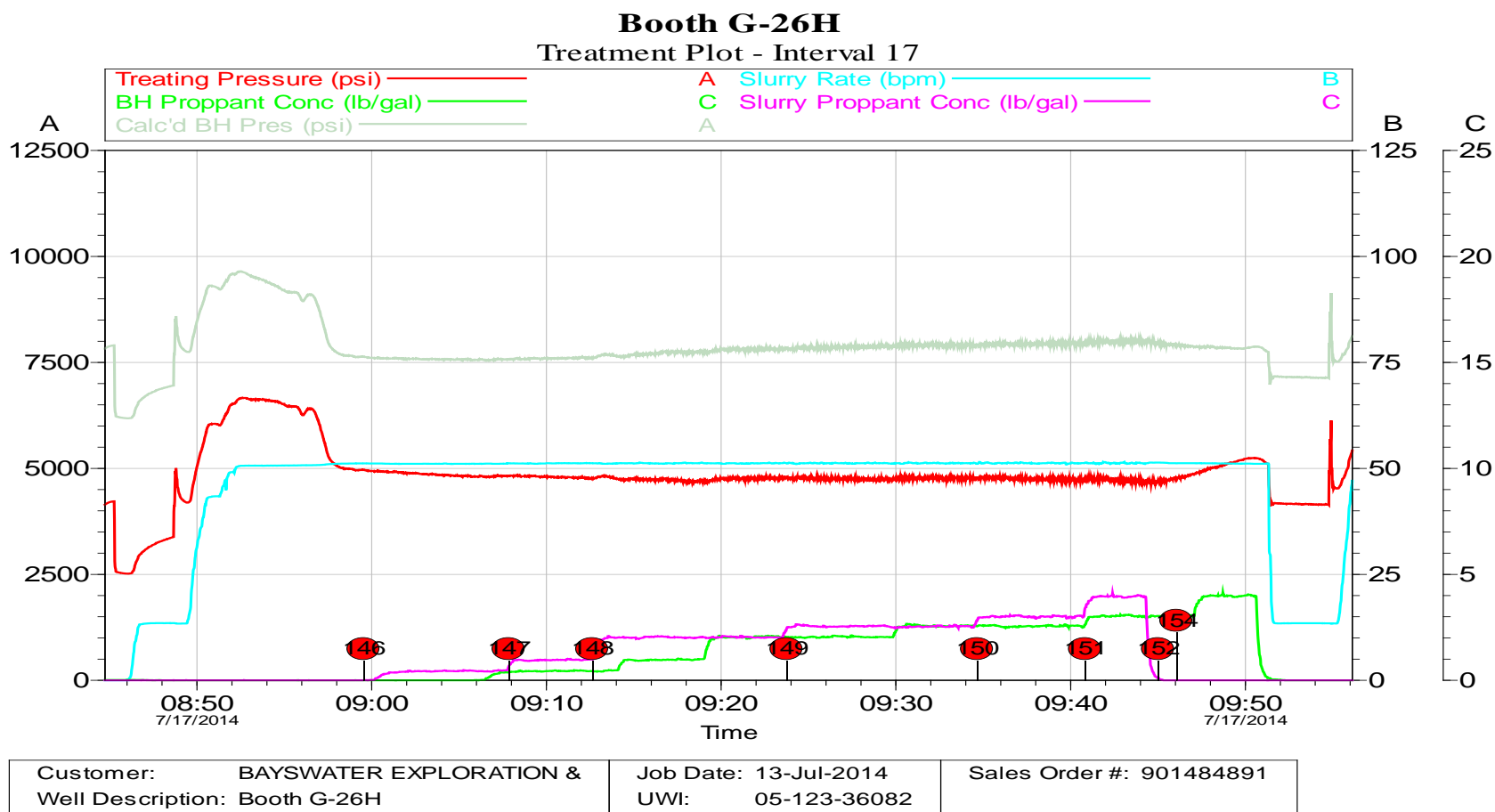


Customer: BAYSWATER EXPLORATION &  
Well Description: Booth G-26H

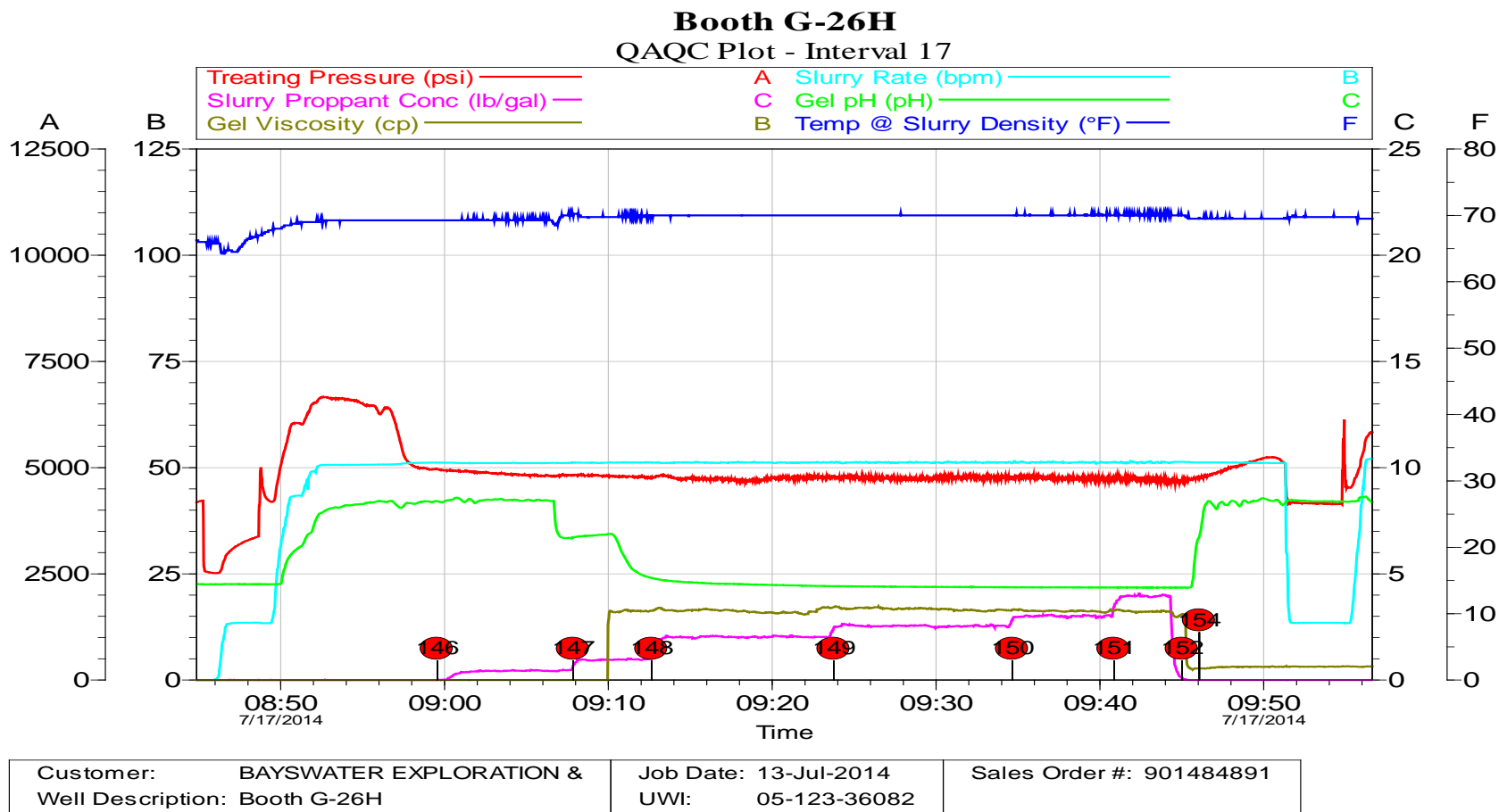
Job Date: 13-Jul-2014  
UWI: 05-123-36082

Sales Order #: 901484891

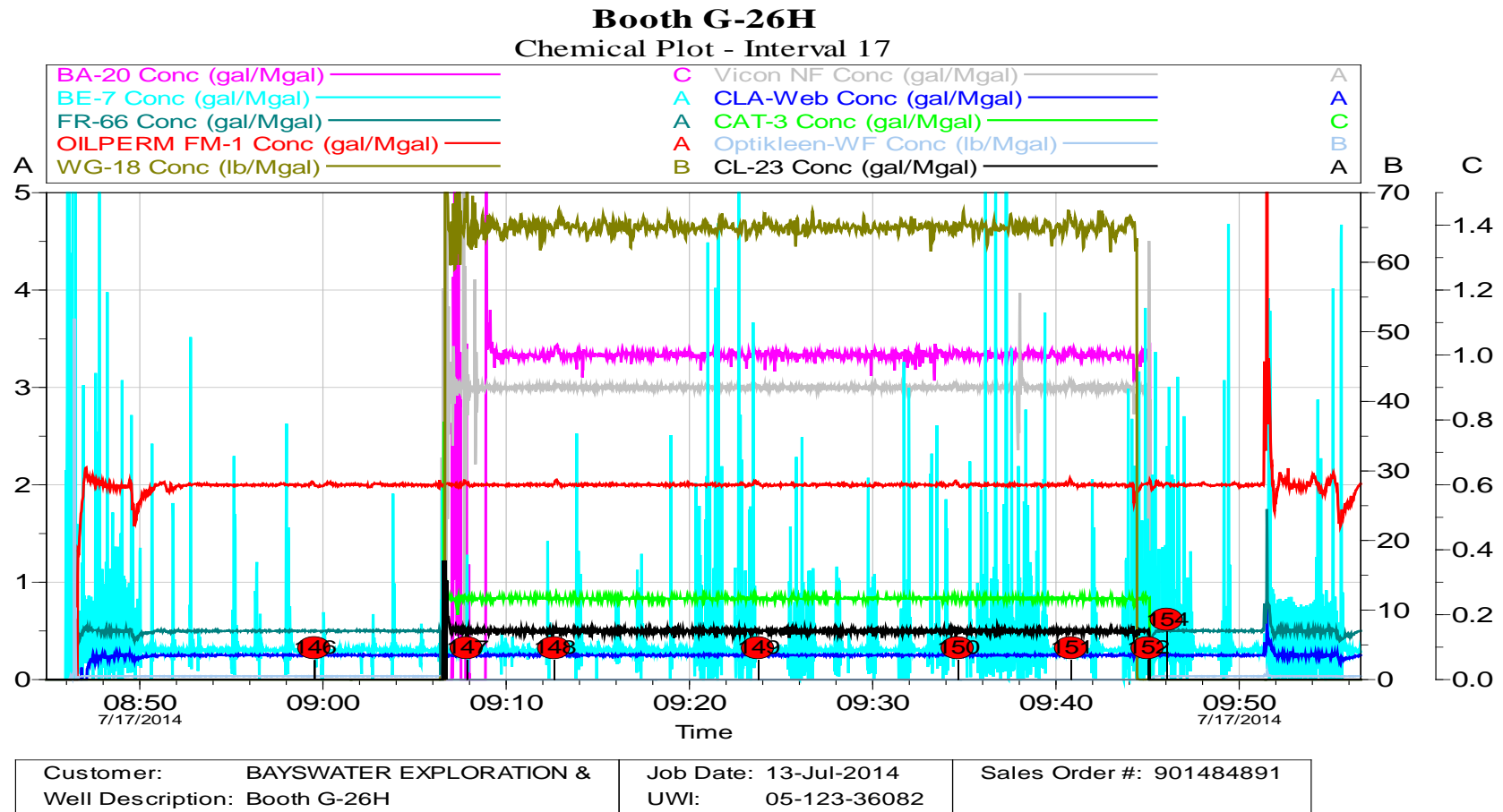
## 2.66 Booth G-26H - Treatment Plot - Interval 17



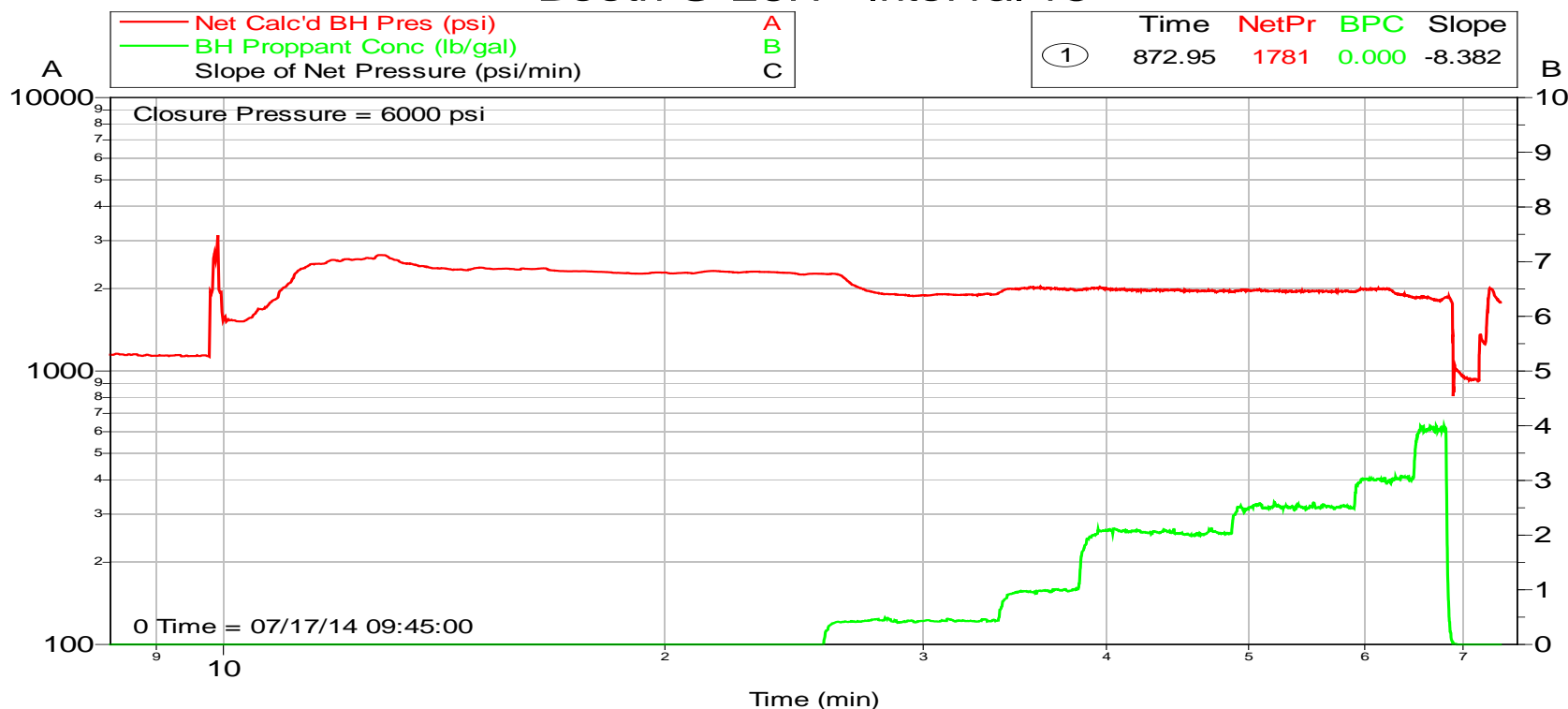
## 2.67 Booth G-26H - QAQC Plot - Interval 17



## 2.68 Booth G-26H - Chemical Plot - Interval 17



## 2.69 Net Pressure Plot - Booth G-26H - Interval 18

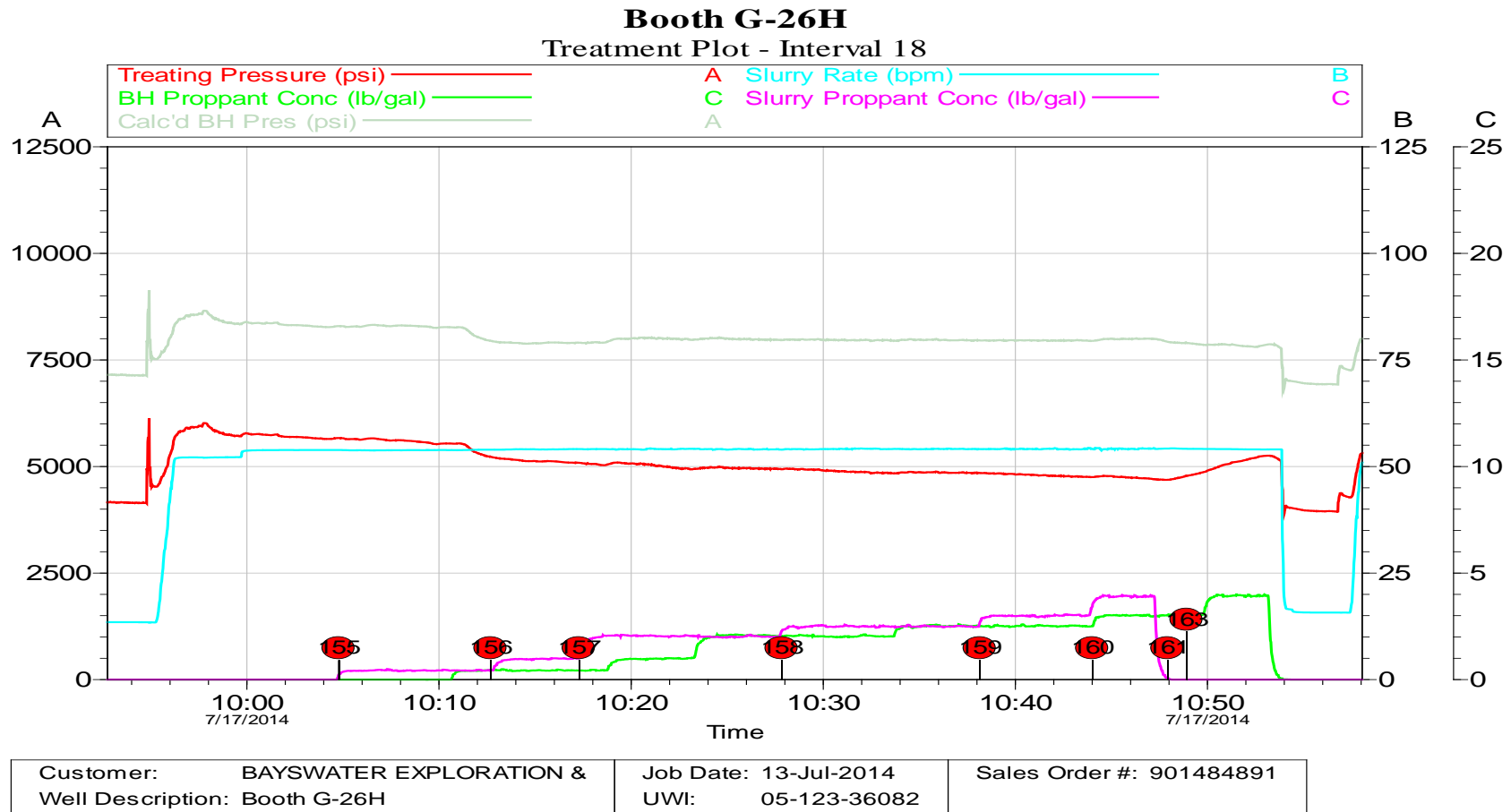
Net Pressure Plot  
Booth G-26H - Interval 18

Customer: BAYSWATER EXPLORATION &  
Well Description: Booth G-26H

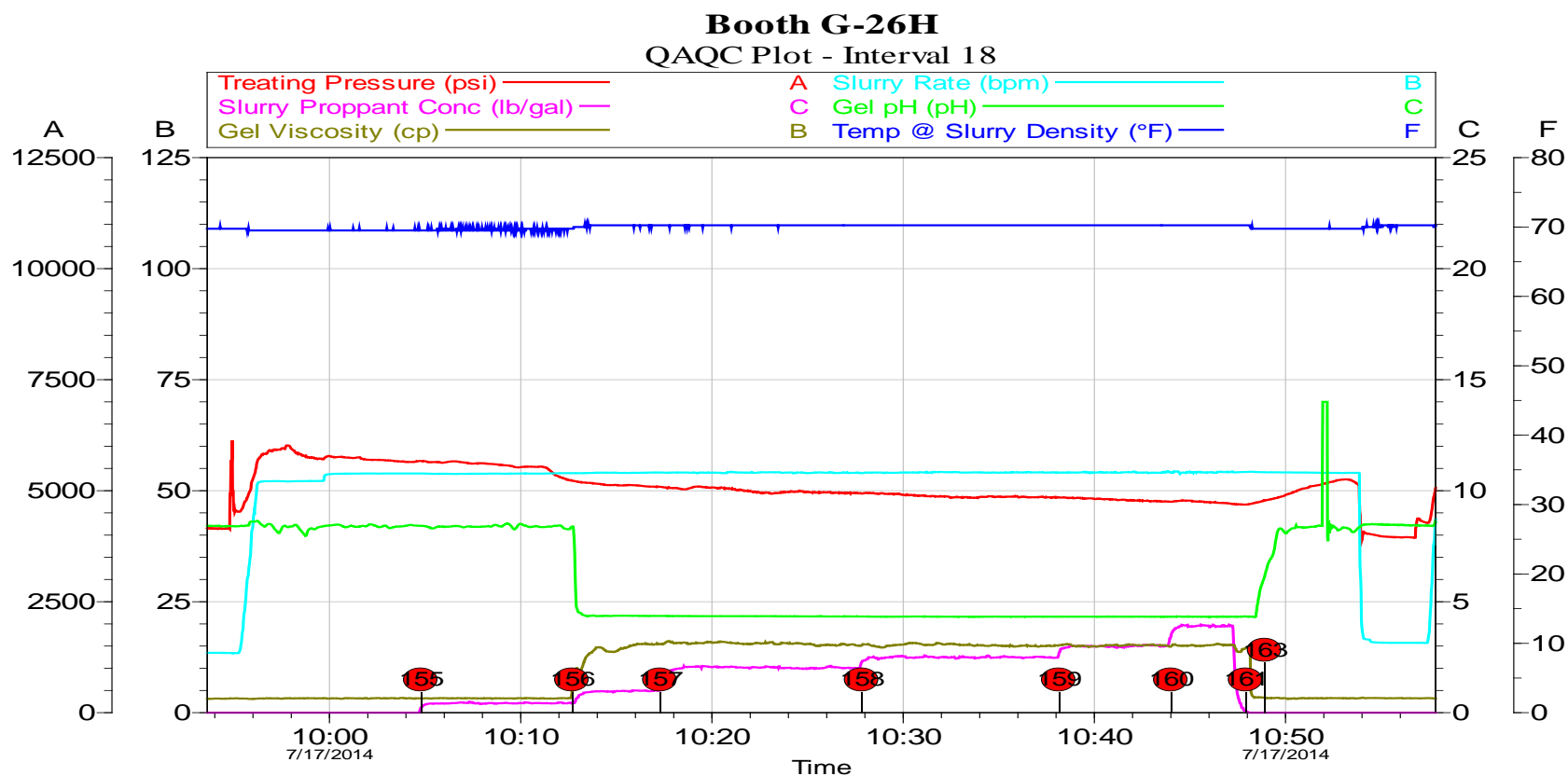
Job Date: 13-Jul-2014  
UWI: 05-123-36082

Sales Order #: 901484891

## 2.70 Booth G-26H - Treatment Plot - Interval 18

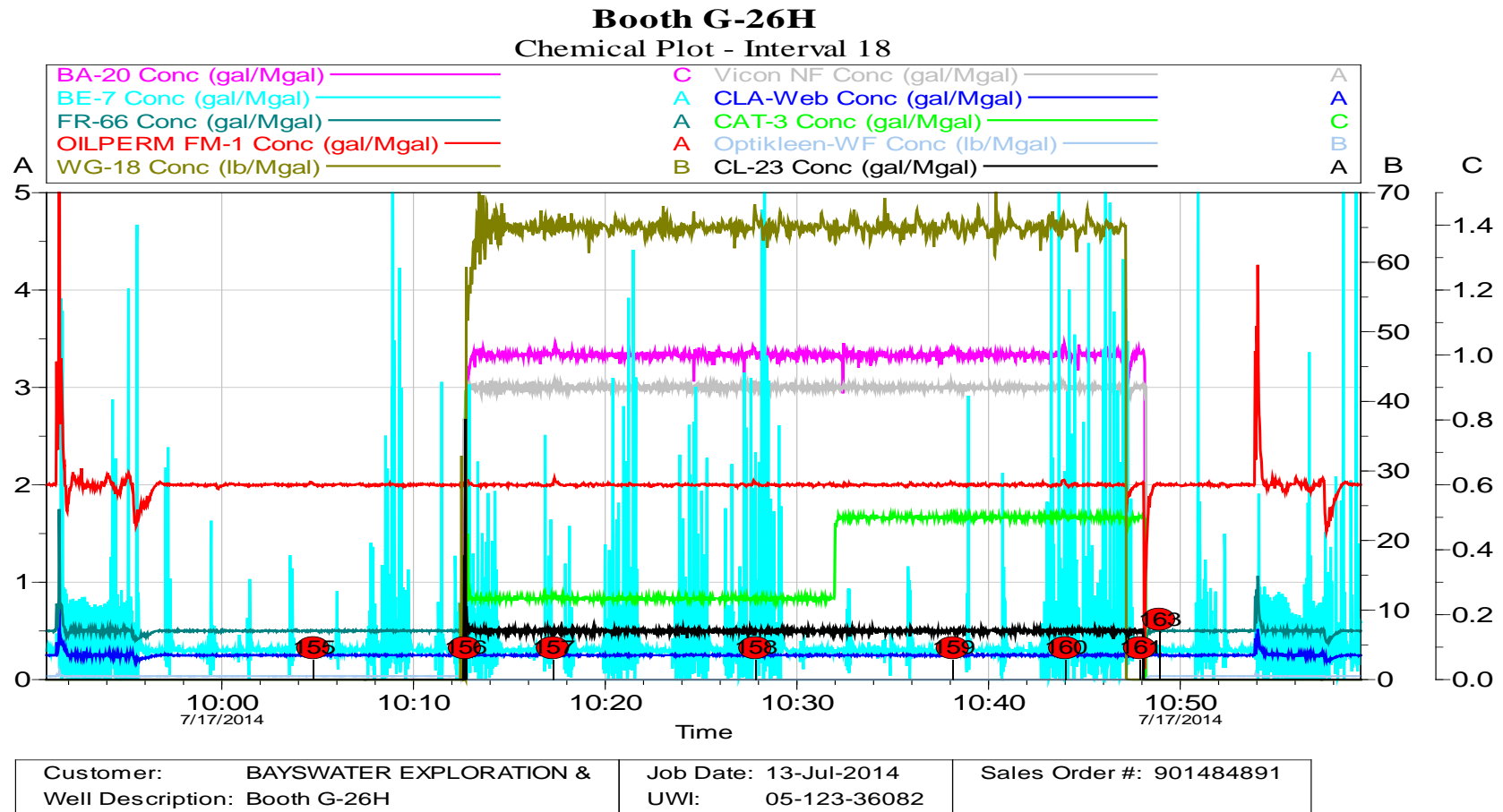


## 2.71 Booth G-26H - QAQC Plot - Interval 18

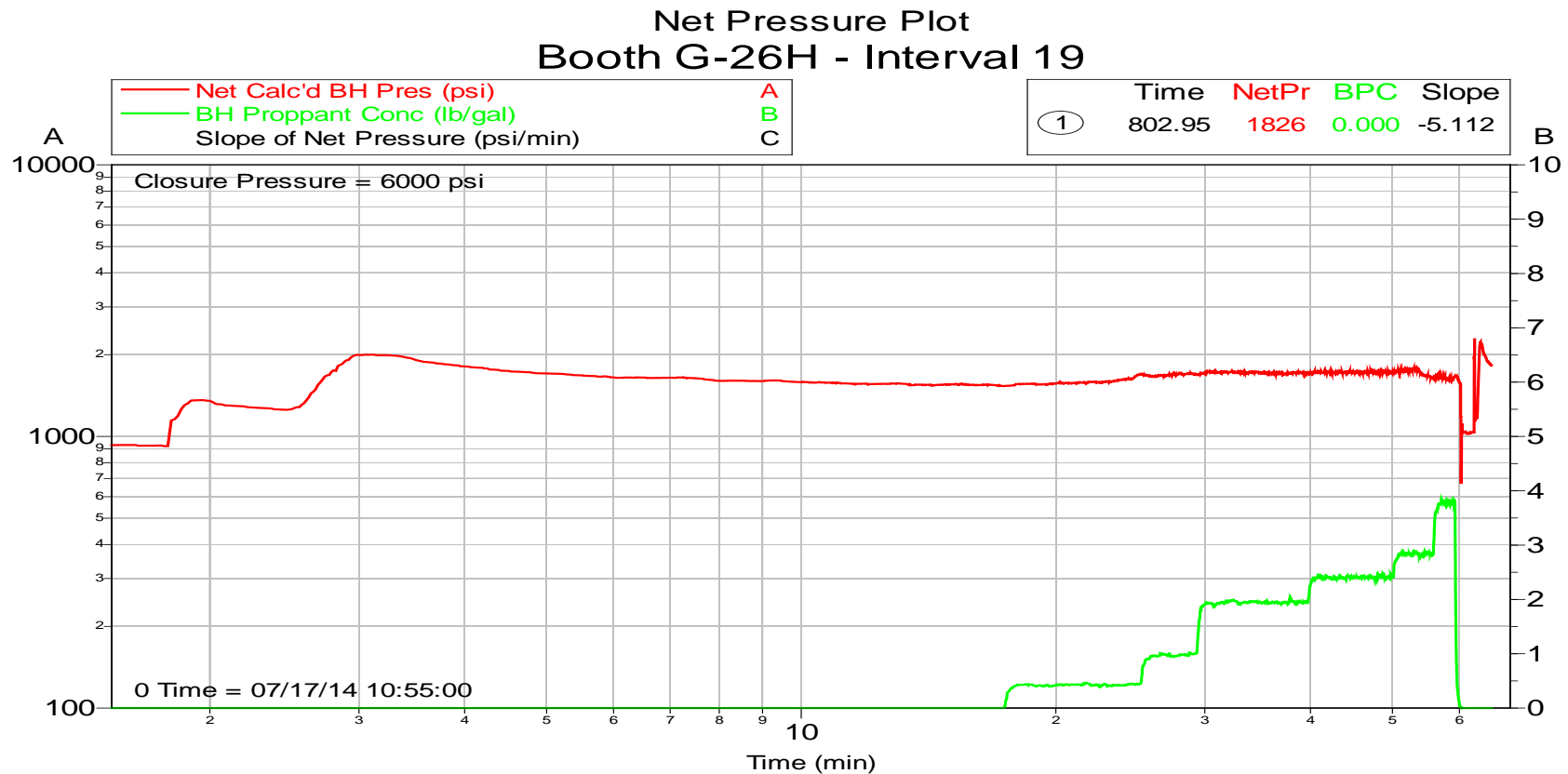


Customer: BAYSWATER EXPLORATION &	Job Date: 13-Jul-2014	Sales Order #: 901484891
Well Description: Booth G-26H	UWI: 05-123-36082	

## 2.72 Booth G-26H - Chemical Plot - Interval 18



## 2.73 Net Pressure Plot - Booth G-26H - Interval 19

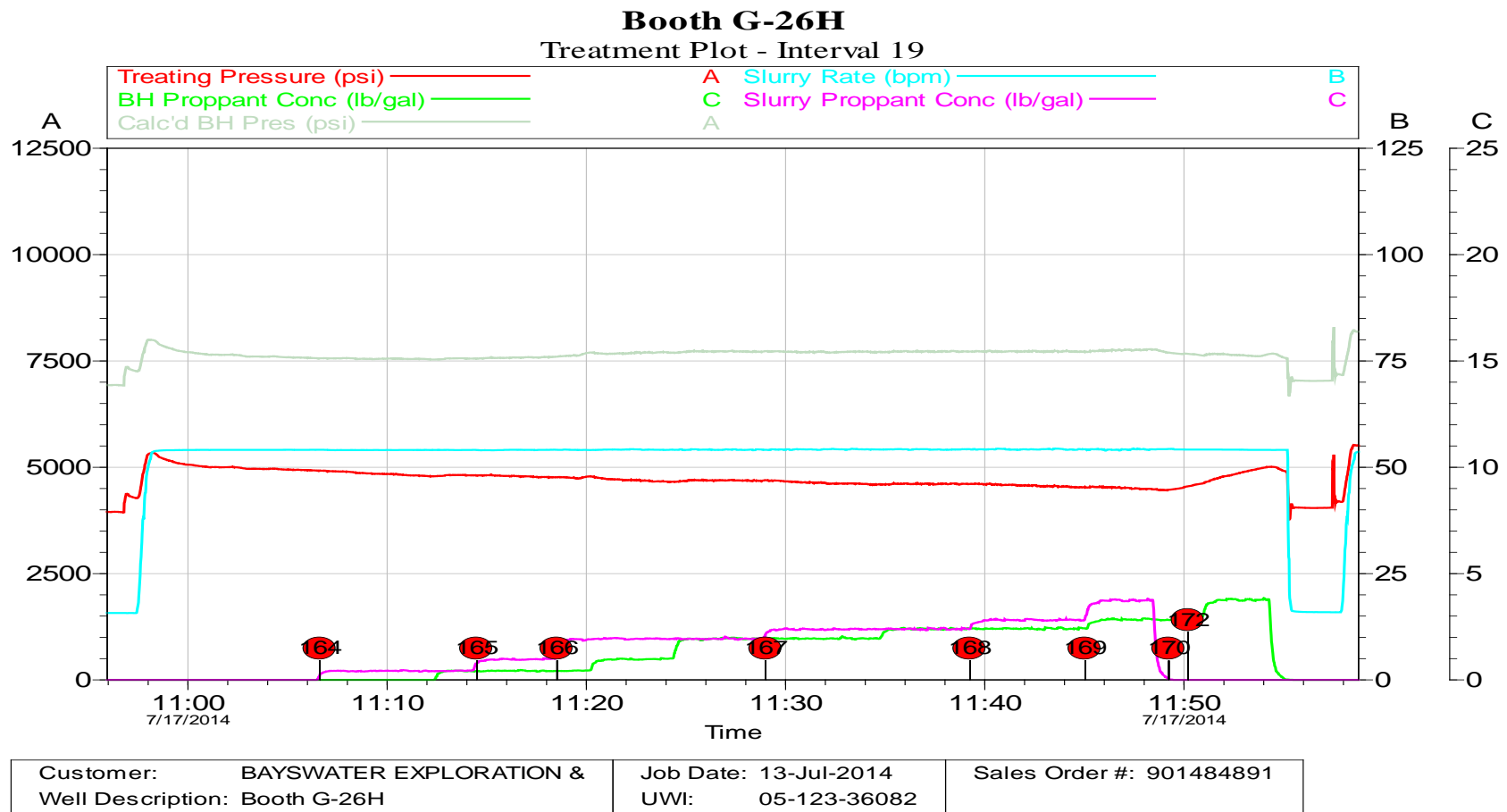


Customer: BAYSWATER EXPLORATION &  
Well Description: Booth G-26H

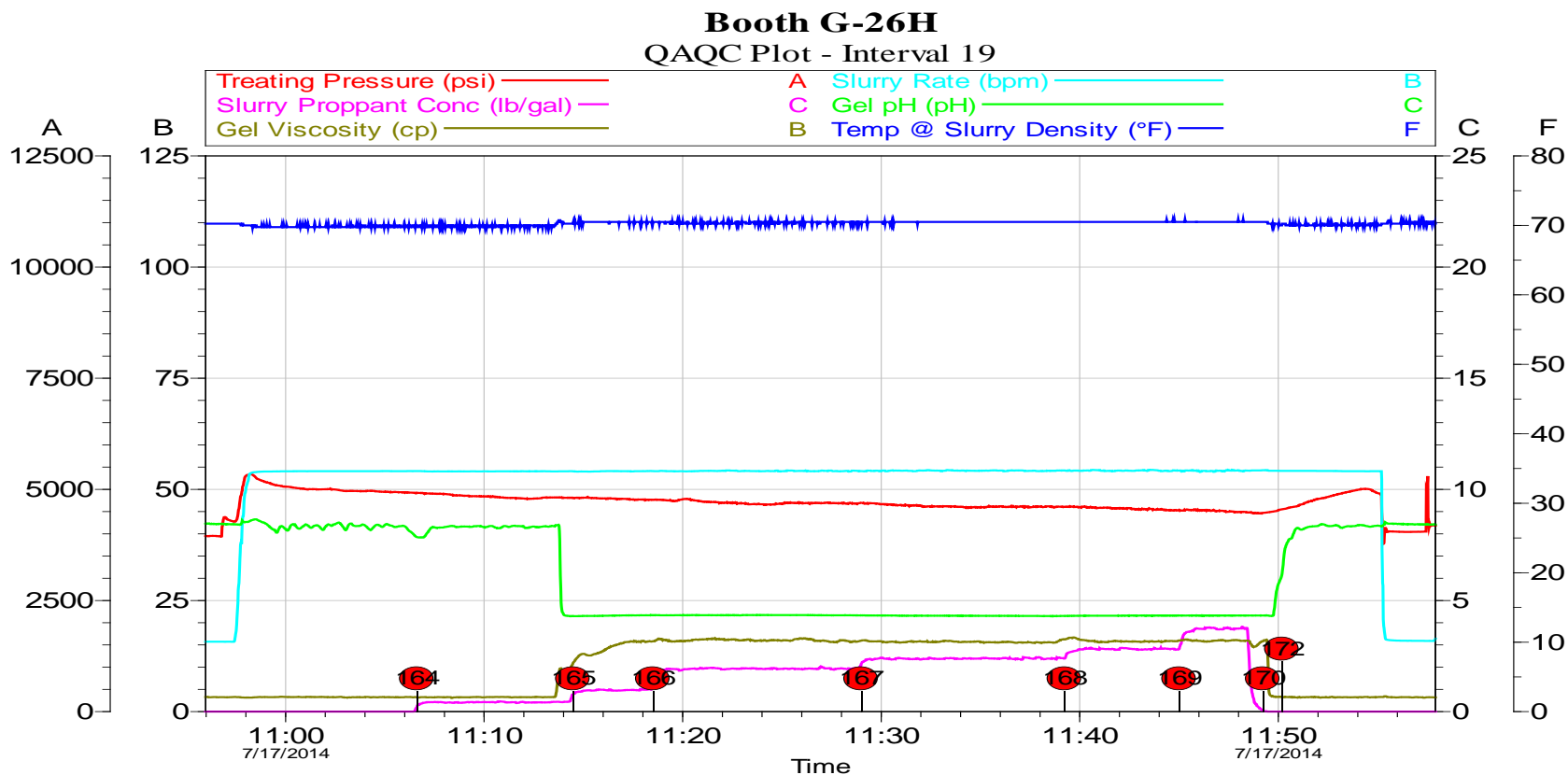
Job Date: 13-Jul-2014  
UWI: 05-123-36082

Sales Order #: 901484891

## 2.74 Booth G-26H - Treatment Plot - Interval 19



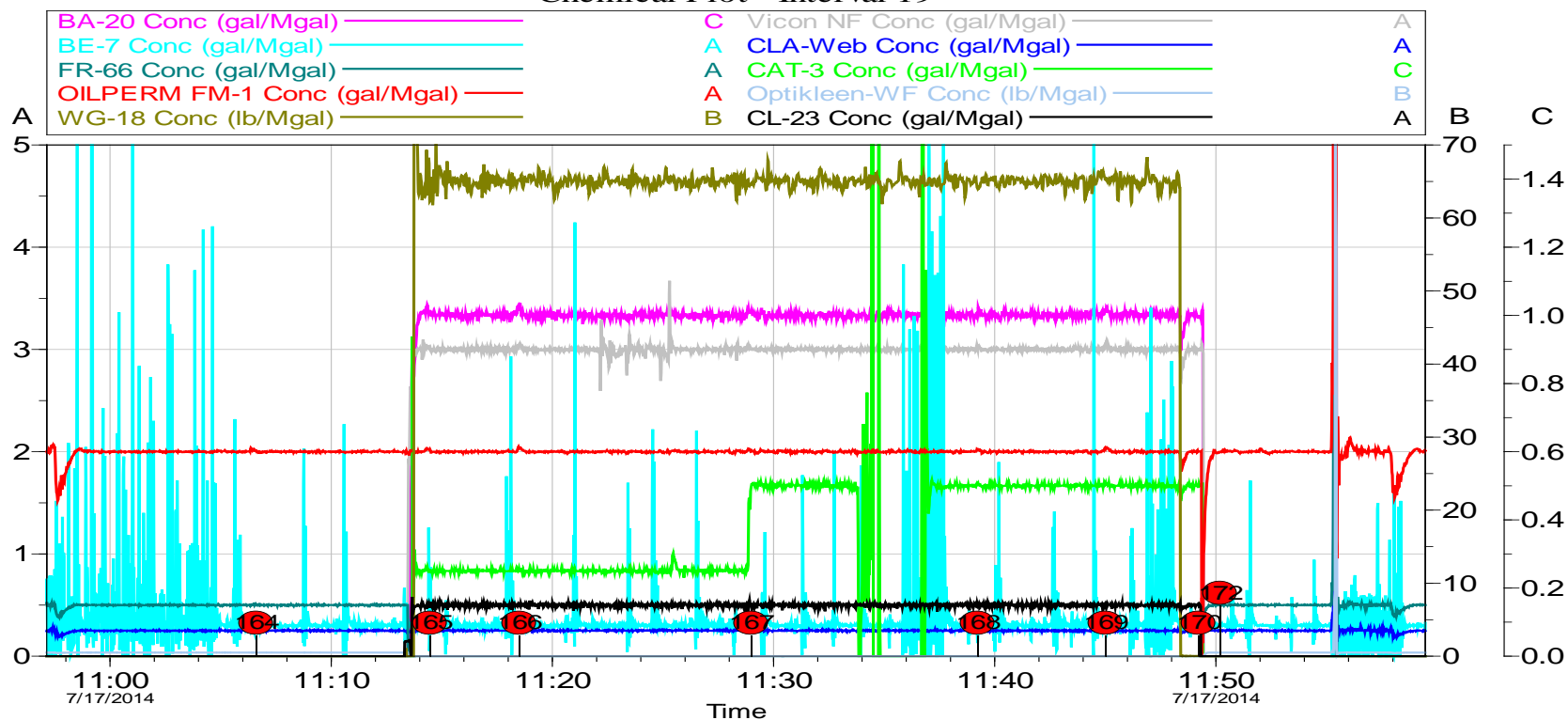
## 2.75 Booth G-26H - QAQC Plot - Interval 19



Customer: BAYSWATER EXPLORATION &	Job Date: 13-Jul-2014	Sales Order #: 901484891
Well Description: Booth G-26H	UWI: 05-123-36082	

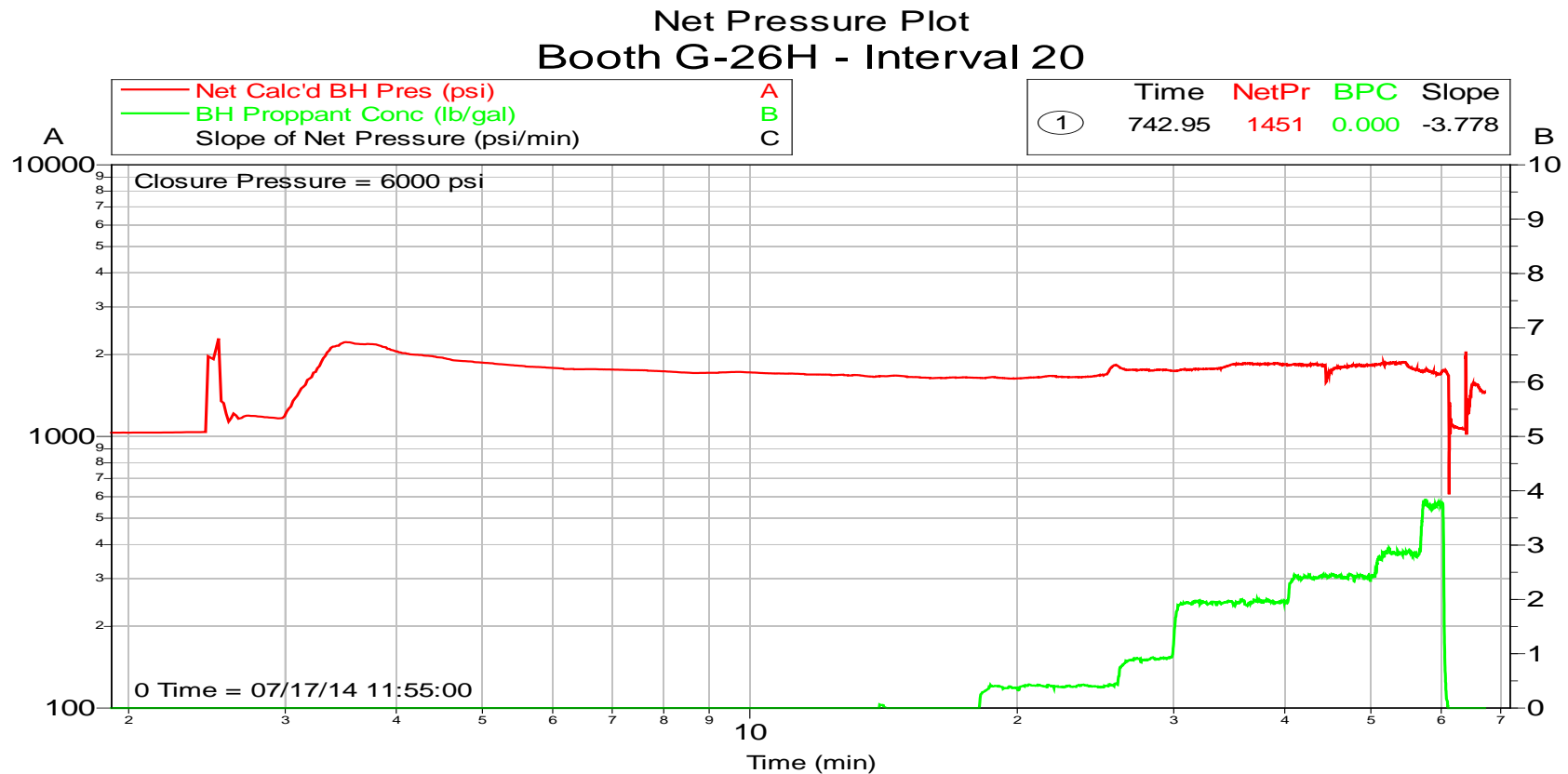
## 2.76 Booth G-26H - Chemical Plot - Interval 19

**Booth G-26H**  
Chemical Plot - Interval 19



Customer: BAYSWATER EXPLORATION &	Job Date: 13-Jul-2014	Sales Order #: 901484891
Well Description: Booth G-26H	UWI: 05-123-36082	

## 2.77 Net Pressure Plot - Booth G-26H - Interval 20

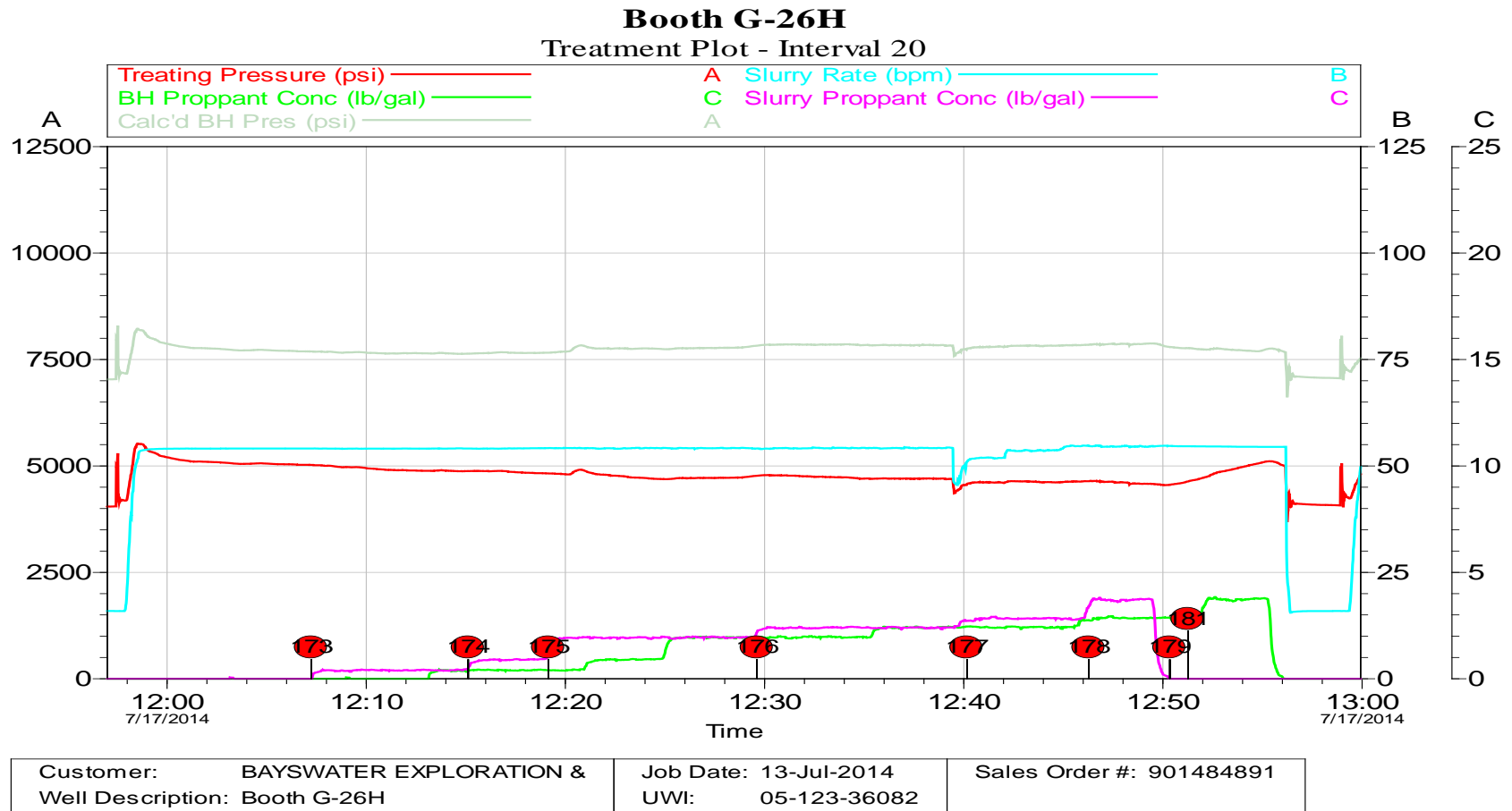


Customer: BAYSWATER EXPLORATION &  
Well Description: Booth G-26H

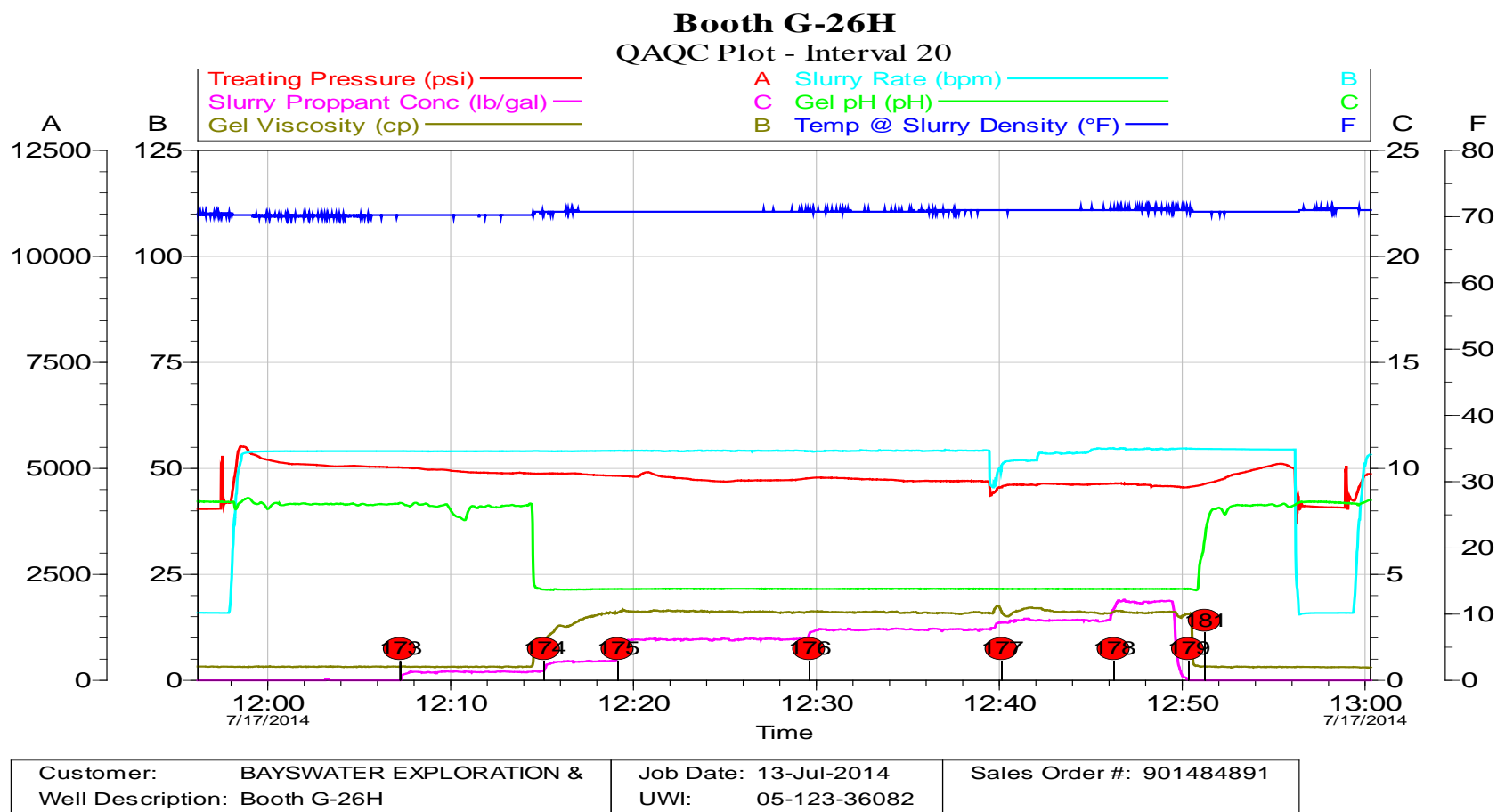
Job Date: 13-Jul-2014  
UWI: 05-123-36082

Sales Order #: 901484891

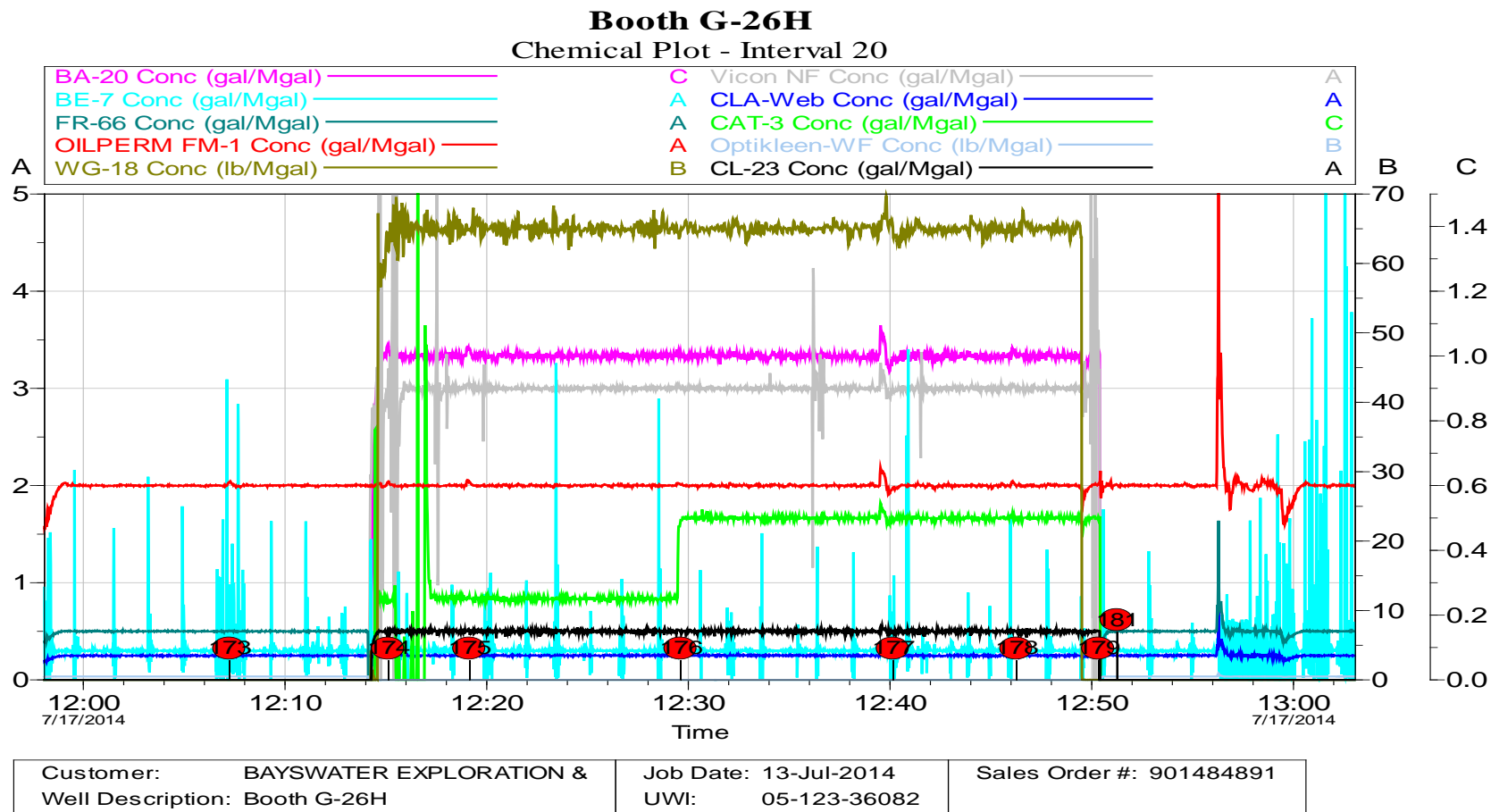
## 2.78 Booth G-26H - Treatment Plot - Interval 20



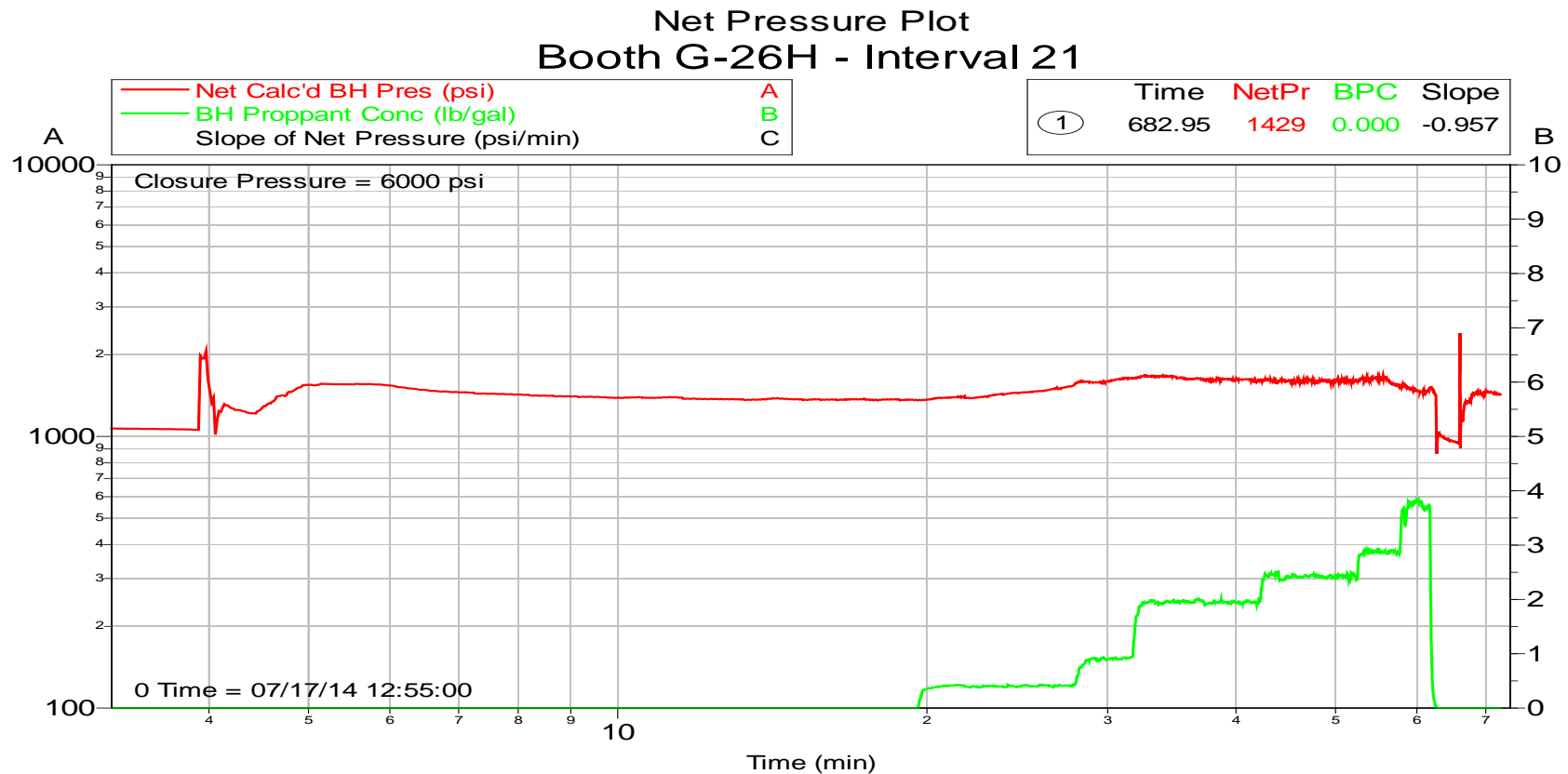
## 2.79 Booth G-26H - QAQC Plot - Interval 20



## 2.80 Booth G-26H - Chemical Plot - Interval 20



## 2.81 Net Pressure Plot - Booth G-26H - Interval 21

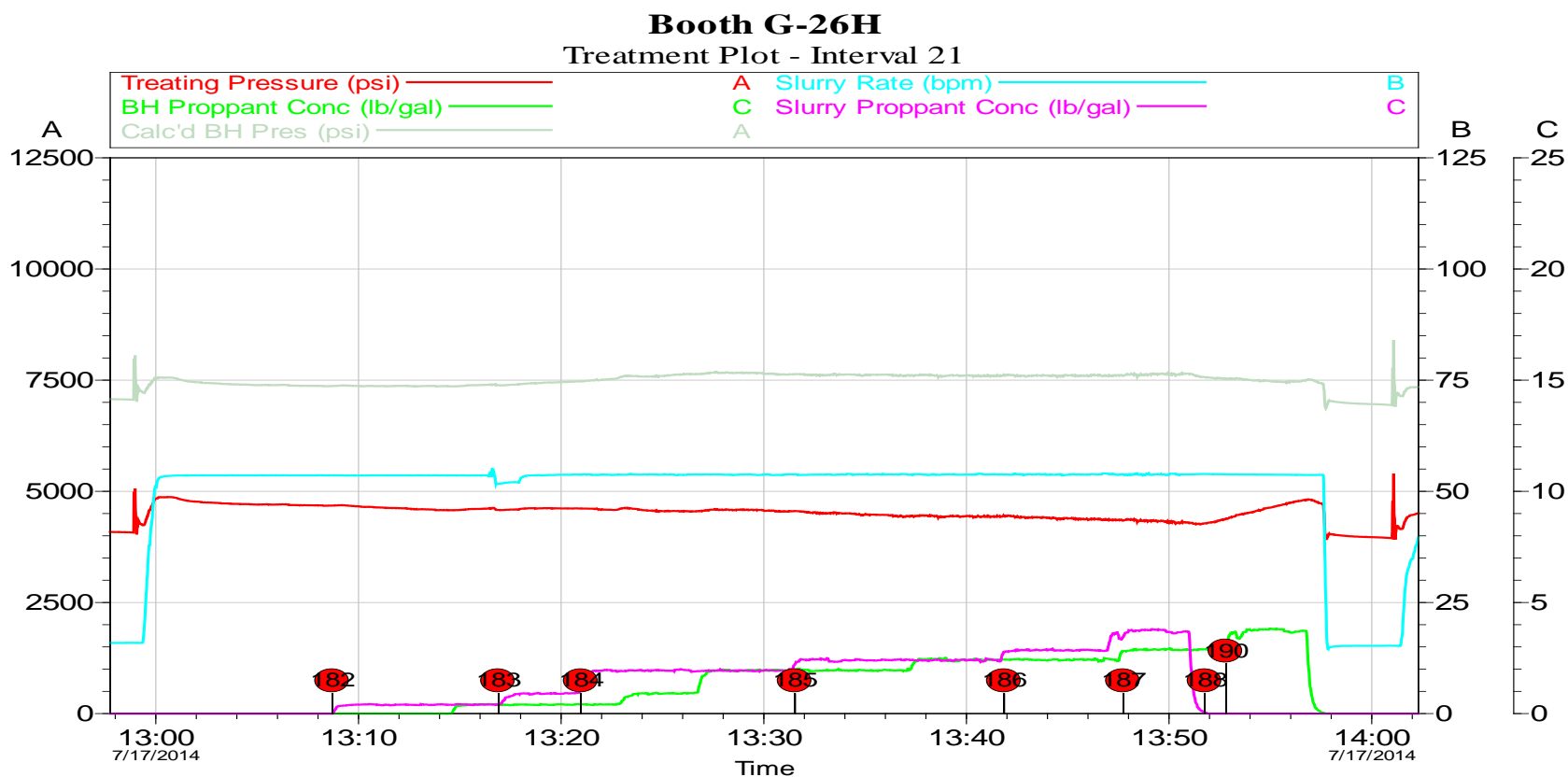


Customer: BAYSWATER EXPLORATION &  
Well Description: Booth G-26H

Job Date: 13-Jul-2014  
UWI: 05-123-36082

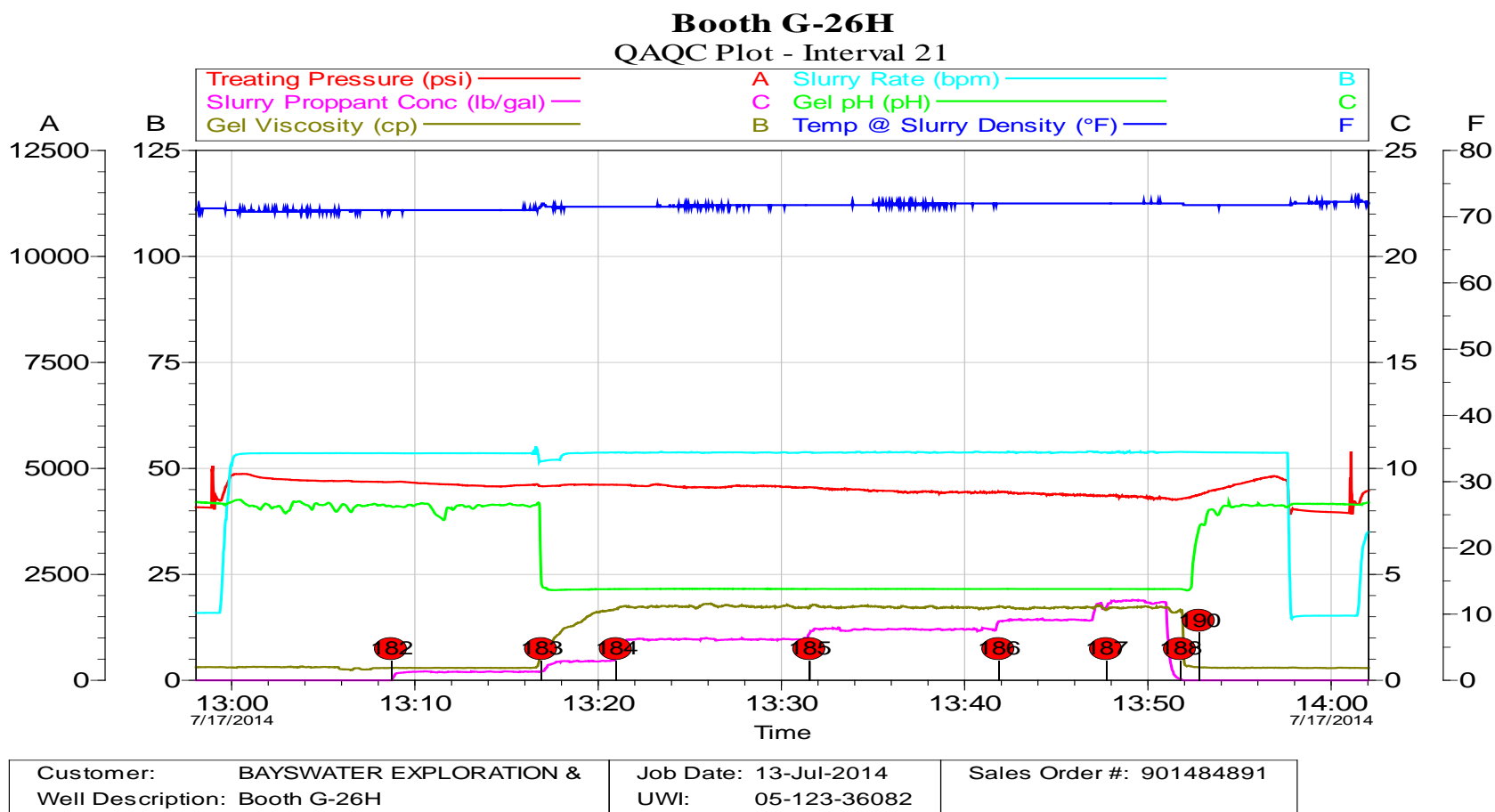
Sales Order #: 901484891

## 2.82 Booth G-26H - Treatment Plot - Interval 21

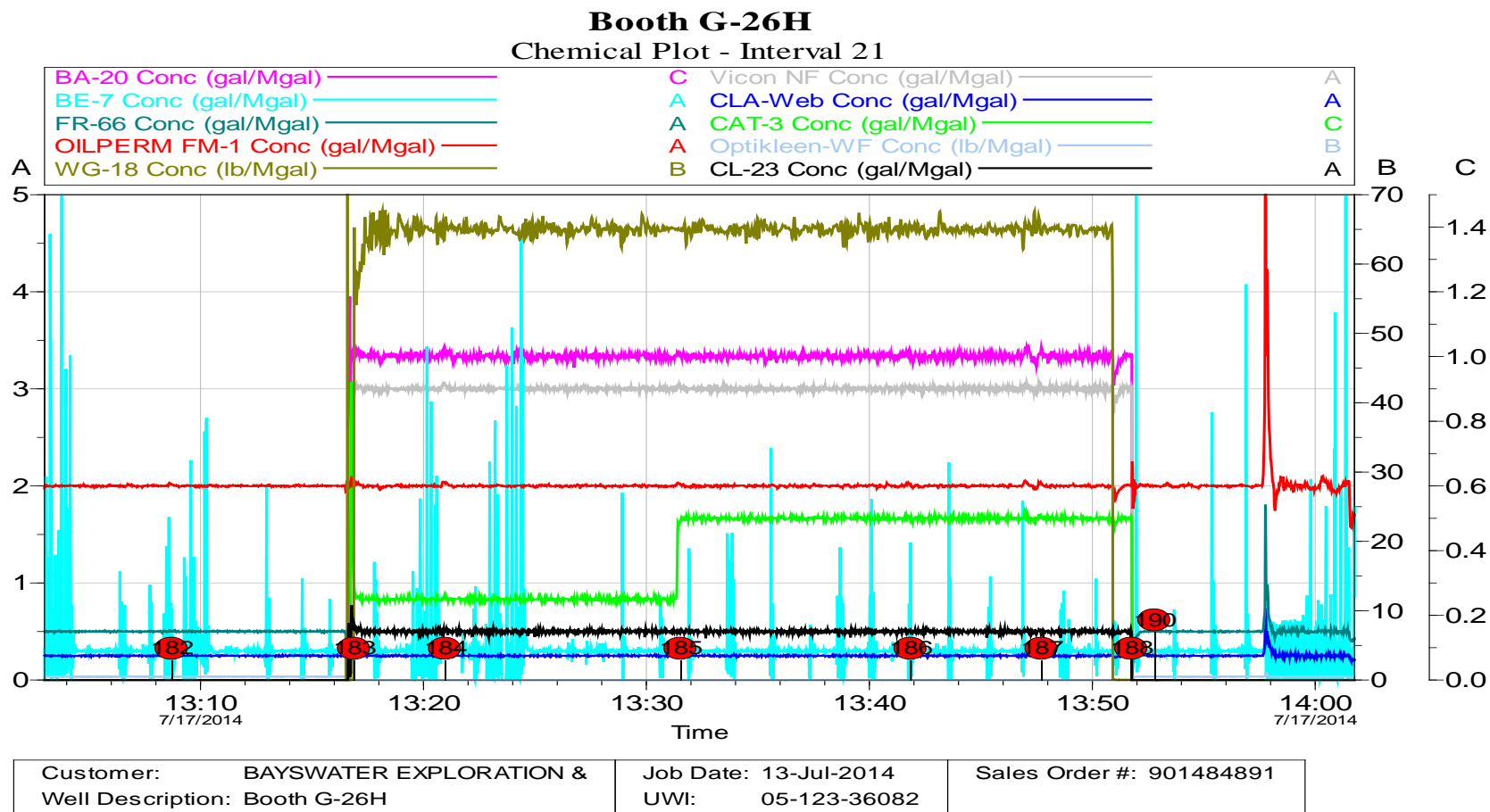


Customer: BAYSWATER EXPLORATION &	Job Date: 13-Jul-2014	Sales Order #: 901484891
Well Description: Booth G-26H	UWI: 05-123-36082	

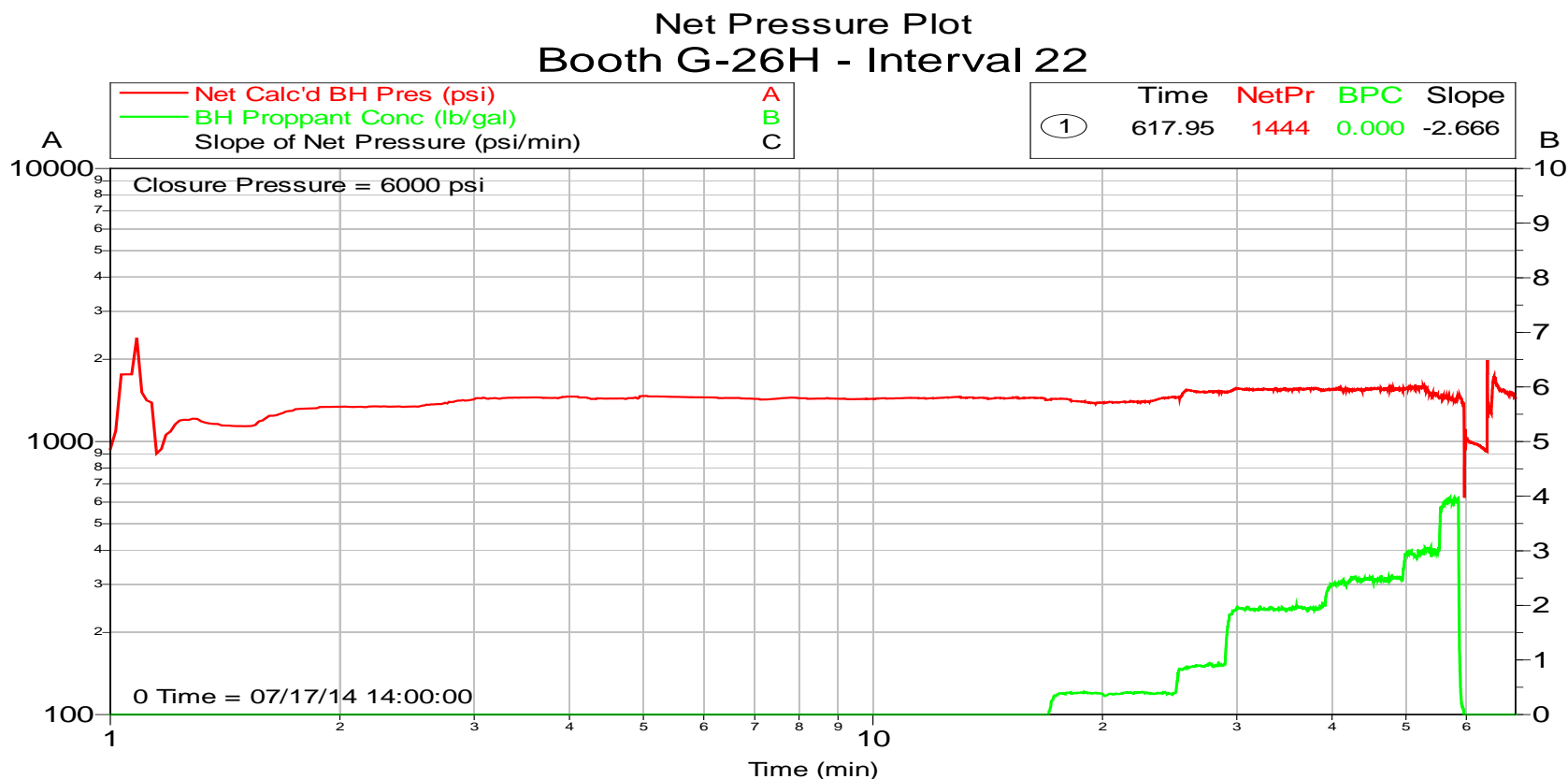
## 2.83 Booth G-26H - QAQC Plot - Interval 21



## 2.84 Booth G-26H - Chemical Plot - Interval 21



## 2.85 Net Pressure Plot - Booth G-26H - Interval 22

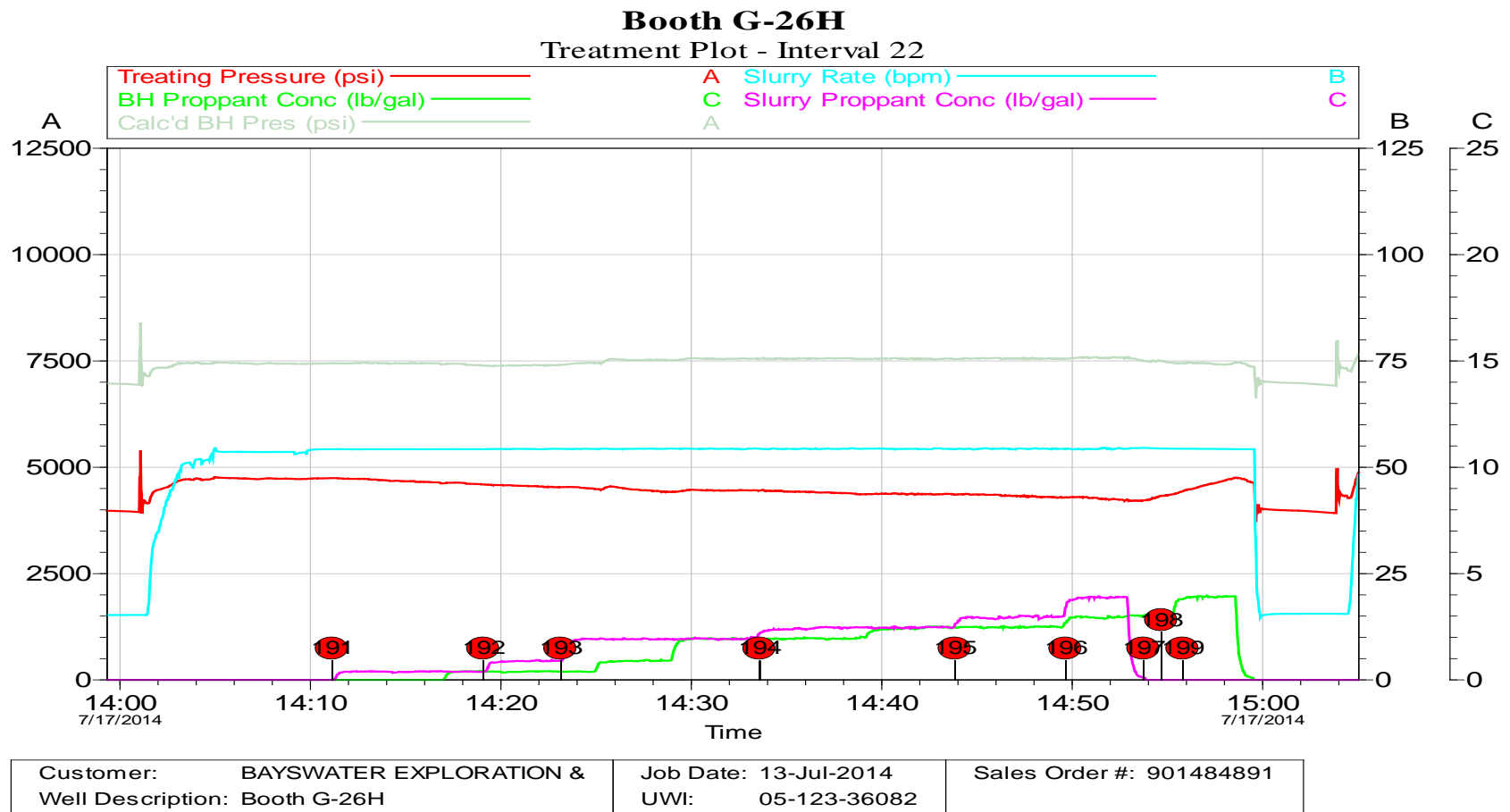


Customer: BAYSWATER EXPLORATION &  
Well Description: Booth G-26H

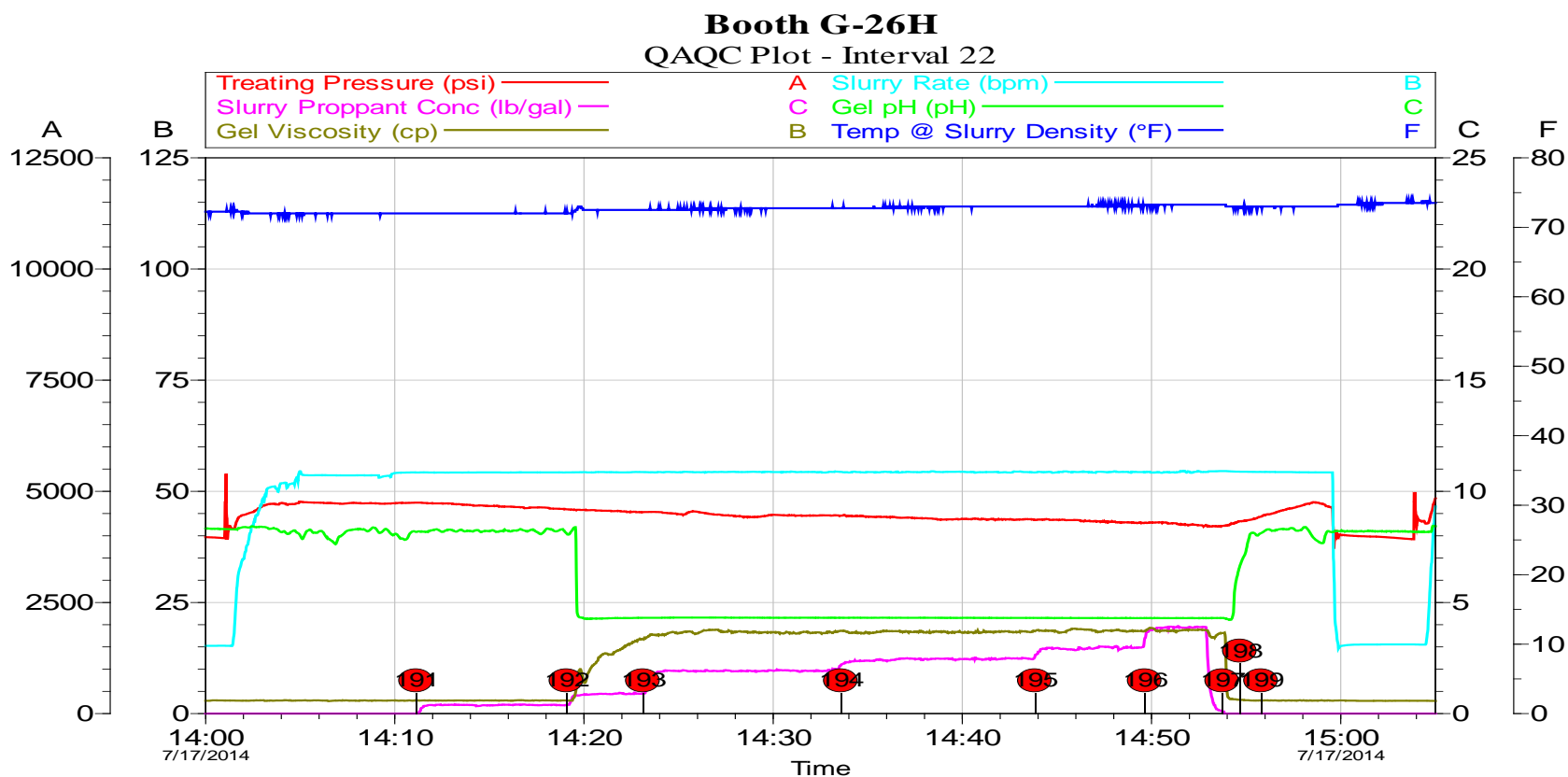
Job Date: 13-Jul-2014  
UWI: 05-123-36082

Sales Order #: 901484891

## 2.86 Booth G-26H - Treatment Plot - Interval 22



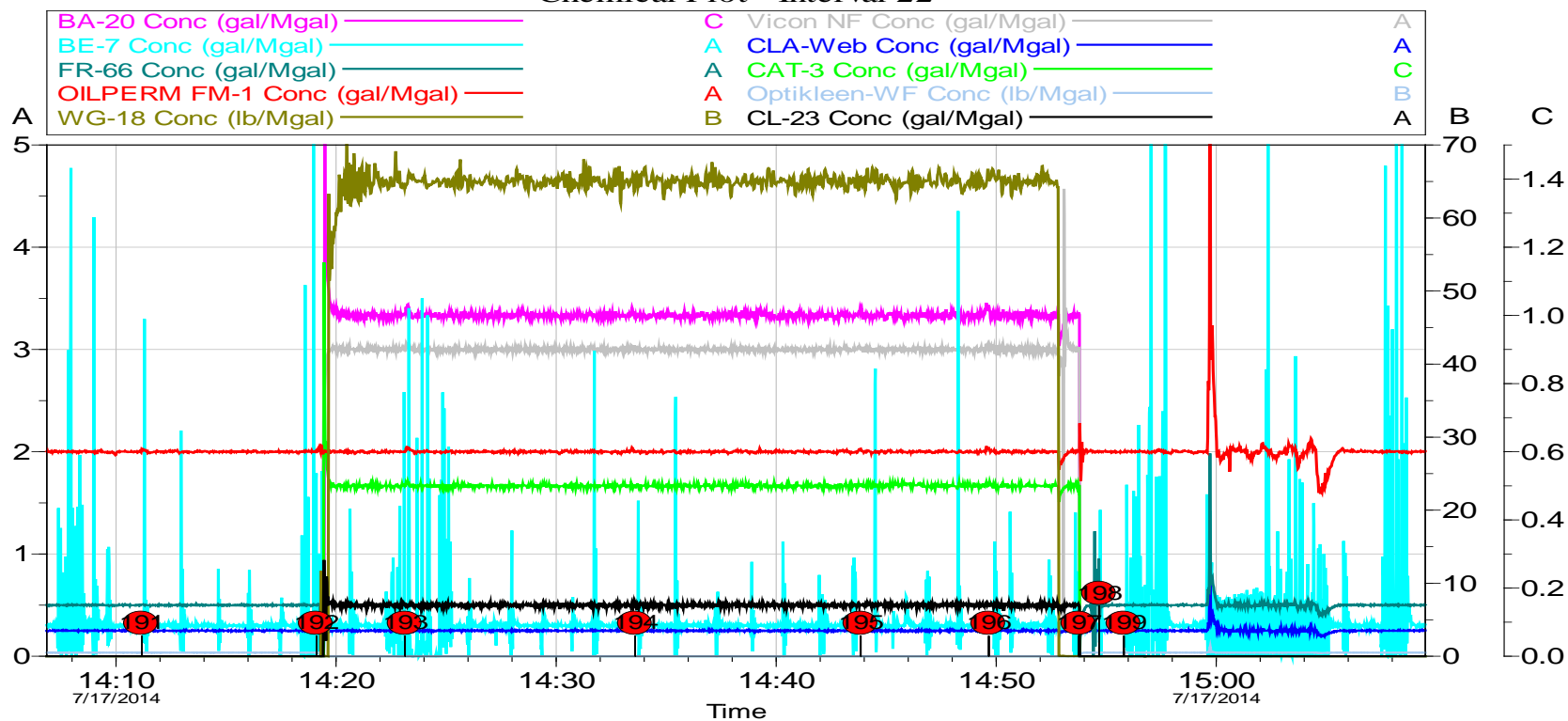
## 2.87 Booth G-26H - QAQC Plot - Interval 22



Customer: BAYSWATER EXPLORATION &	Job Date: 13-Jul-2014	Sales Order #: 901484891
Well Description: Booth G-26H	UWI: 05-123-36082	

## 2.88 Booth G-26H - Chemical Plot - Interval 22

**Booth G-26H**  
Chemical Plot - Interval 22

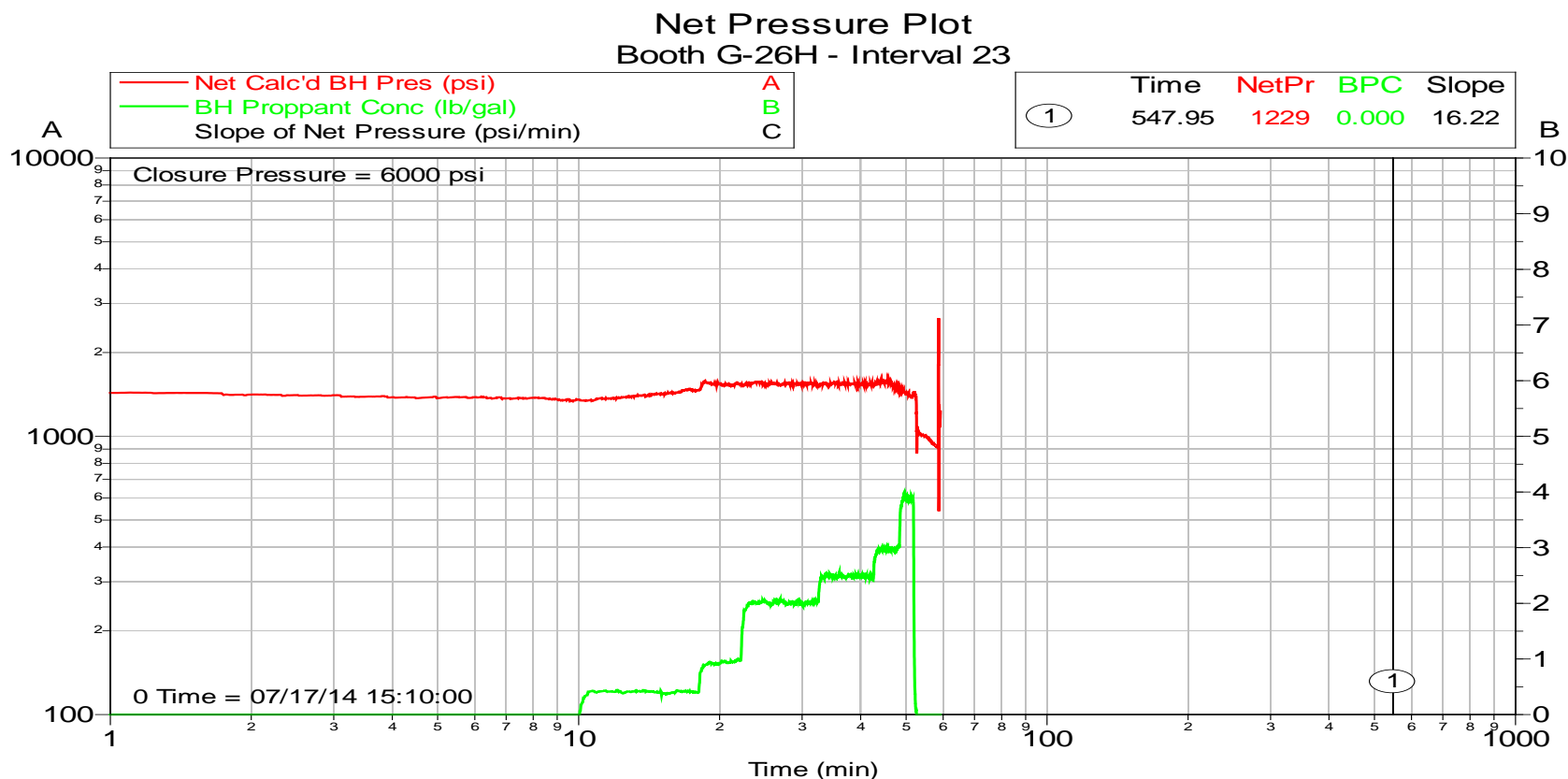


Customer: BAYSWATER EXPLORATION &  
Well Description: Booth G-26H

Job Date: 13-Jul-2014  
UWI: 05-123-36082

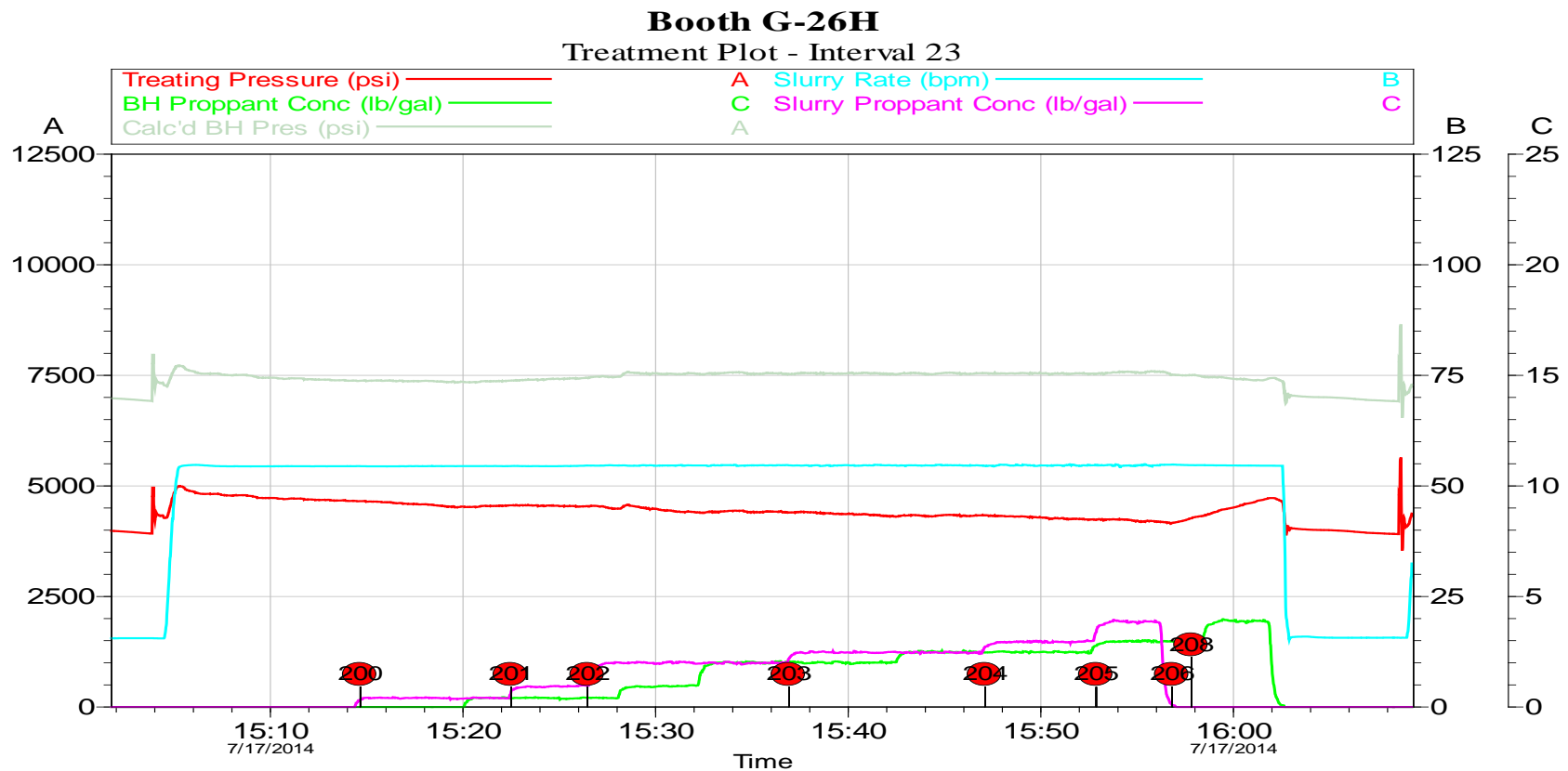
Sales Order #: 901484891

## 2.89 Net Pressure Plot - Booth G-26H - Interval 23



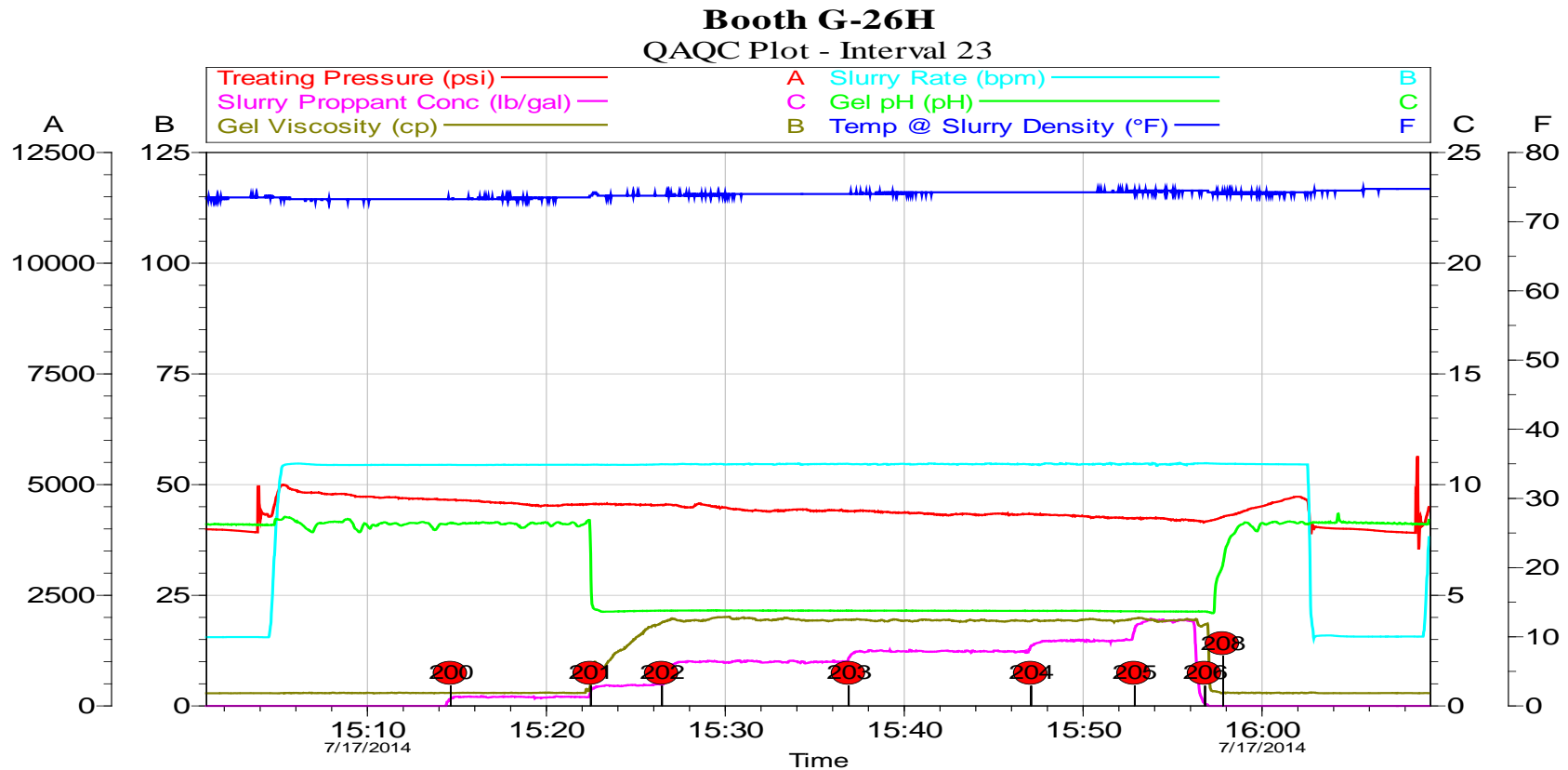
Customer:	BAYSWATER EXPLORATION &	Job Date:	13-Jul-2014	Sales Order #:	901484891
Well Description:	Booth G-26H	UWI:	05-123-36082		

## 2.90 Booth G-26H - Treatment Plot - Interval 23



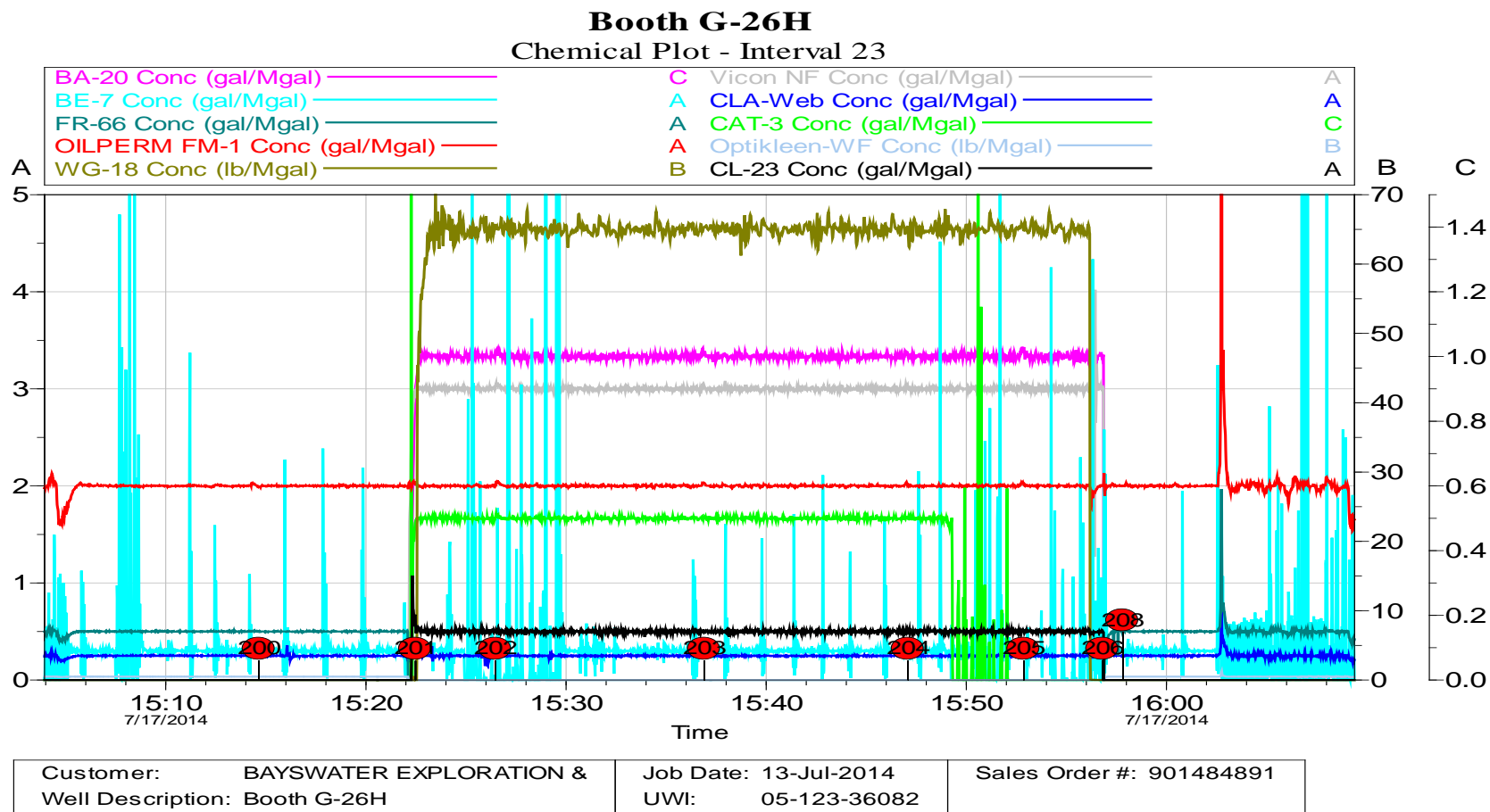
Customer: BAYSWATER EXPLORATION &	Job Date: 13-Jul-2014	Sales Order #: 901484891
Well Description: Booth G-26H	UWI: 05-123-36082	

## 2.91 Booth G-26H - QAQC Plot - Interval 23

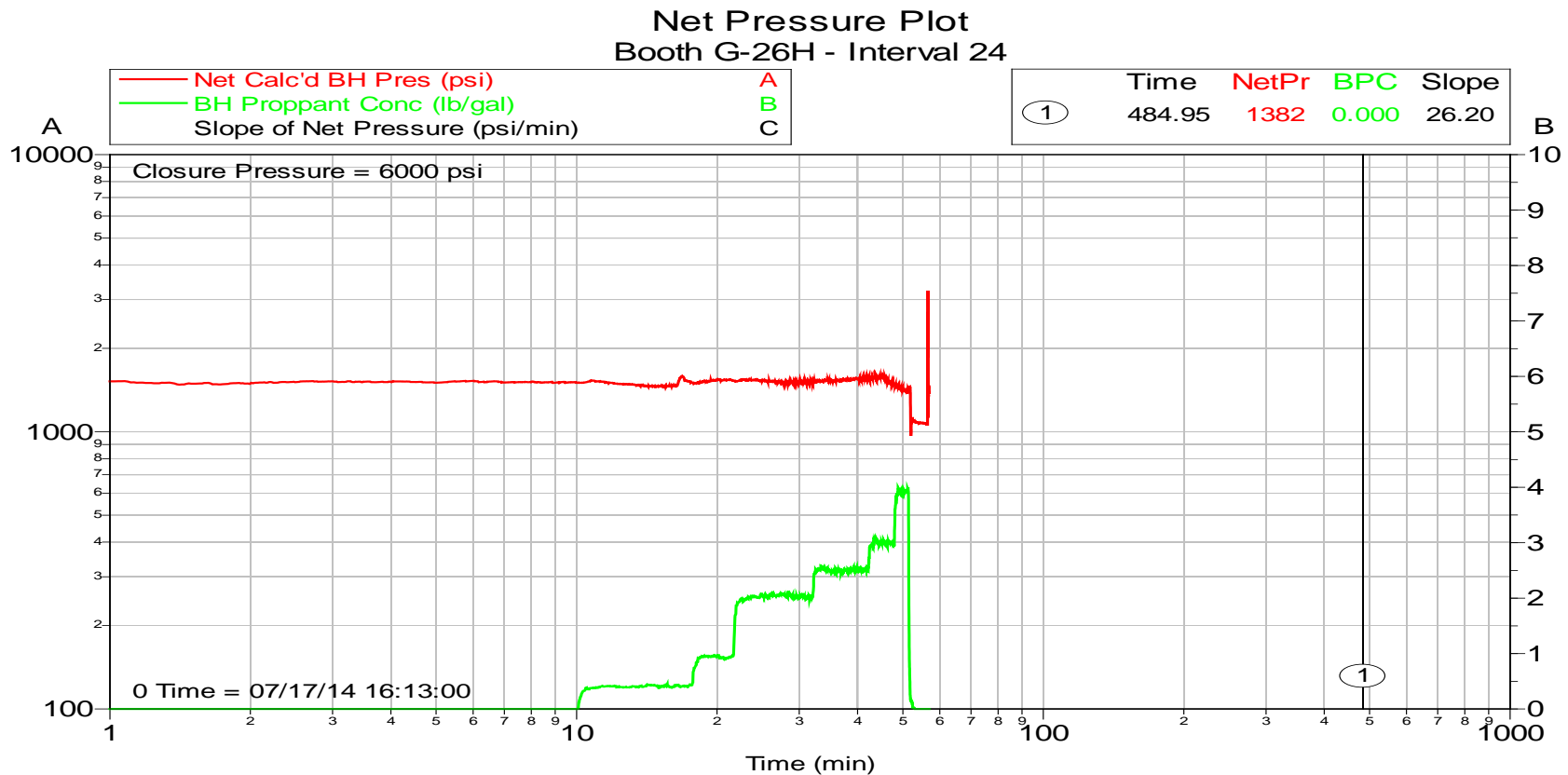


Customer: BAYSWATER EXPLORATION &	Job Date: 13-Jul-2014	Sales Order #: 901484891
Well Description: Booth G-26H	UWI: 05-123-36082	

## 2.92 Booth G-26H - Chemical Plot - Interval 23



## 2.93 Net Pressure Plot - Booth G-26H - Interval 24

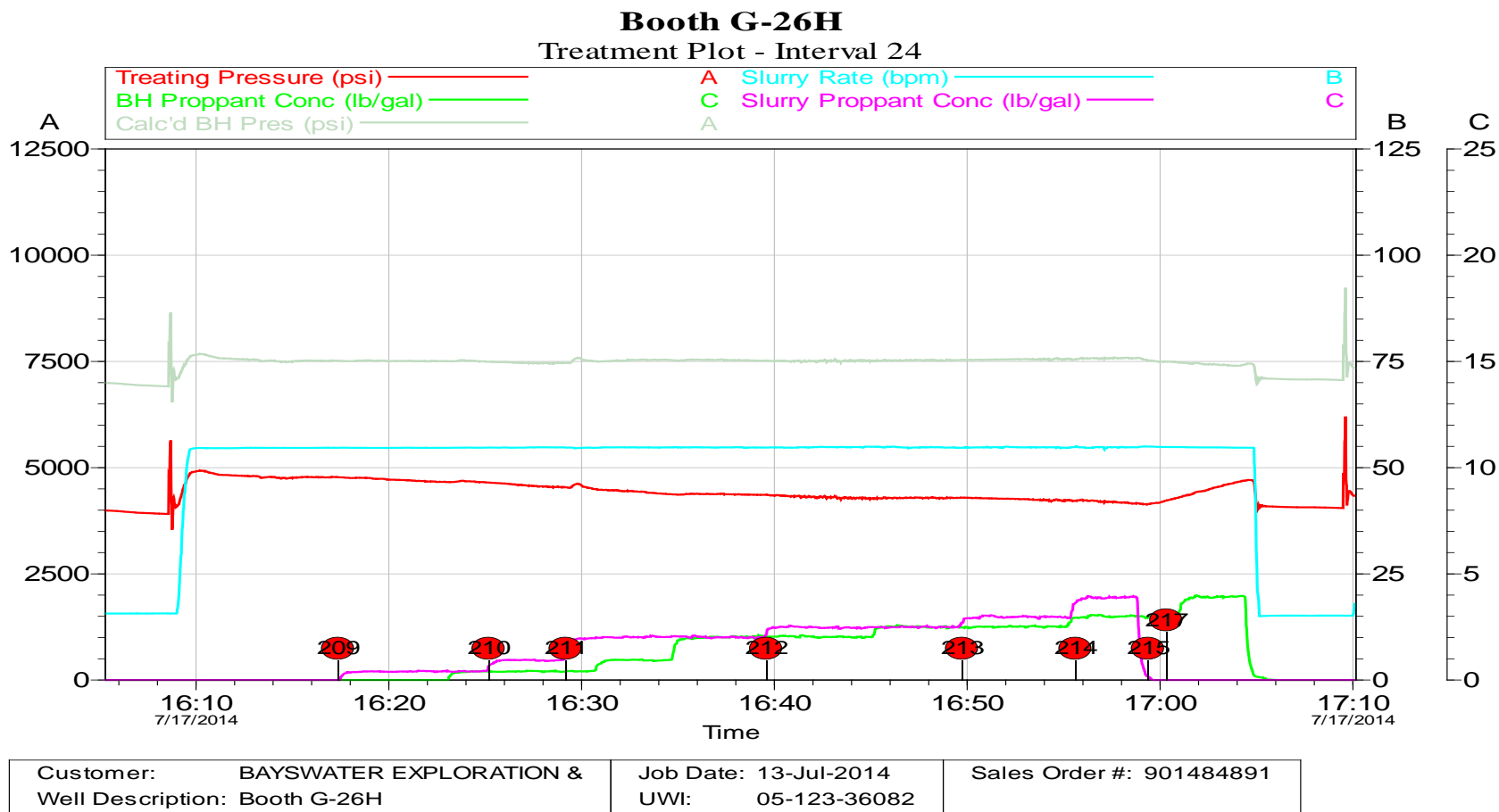


Customer: BAYSWATER EXPLORATION &  
Well Description: Booth G-26H

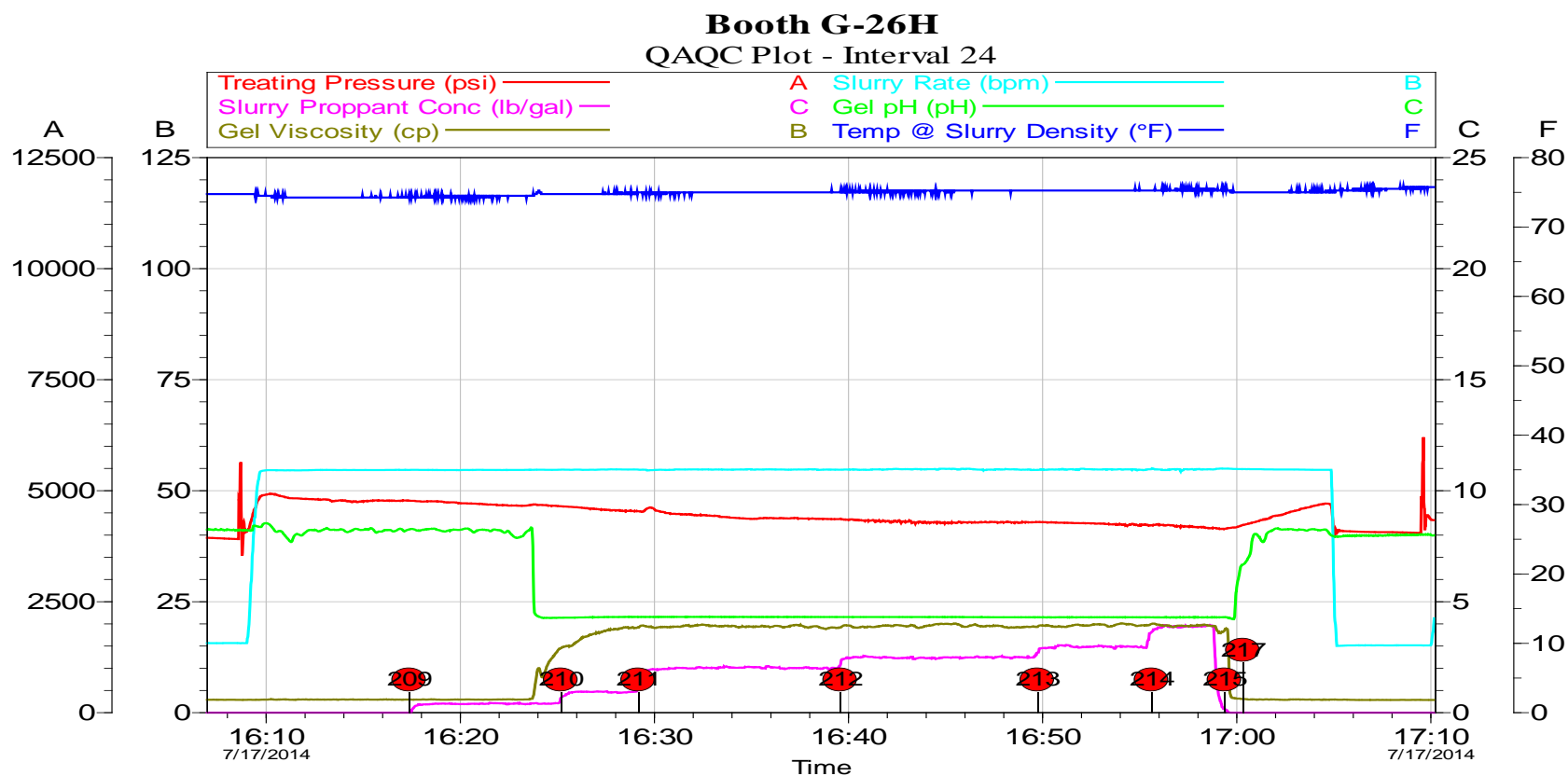
Job Date: 13-Jul-2014  
UWI: 05-123-36082

Sales Order #: 901484891

## 2.94 Booth G-26H - Treatment Plot - Interval 24

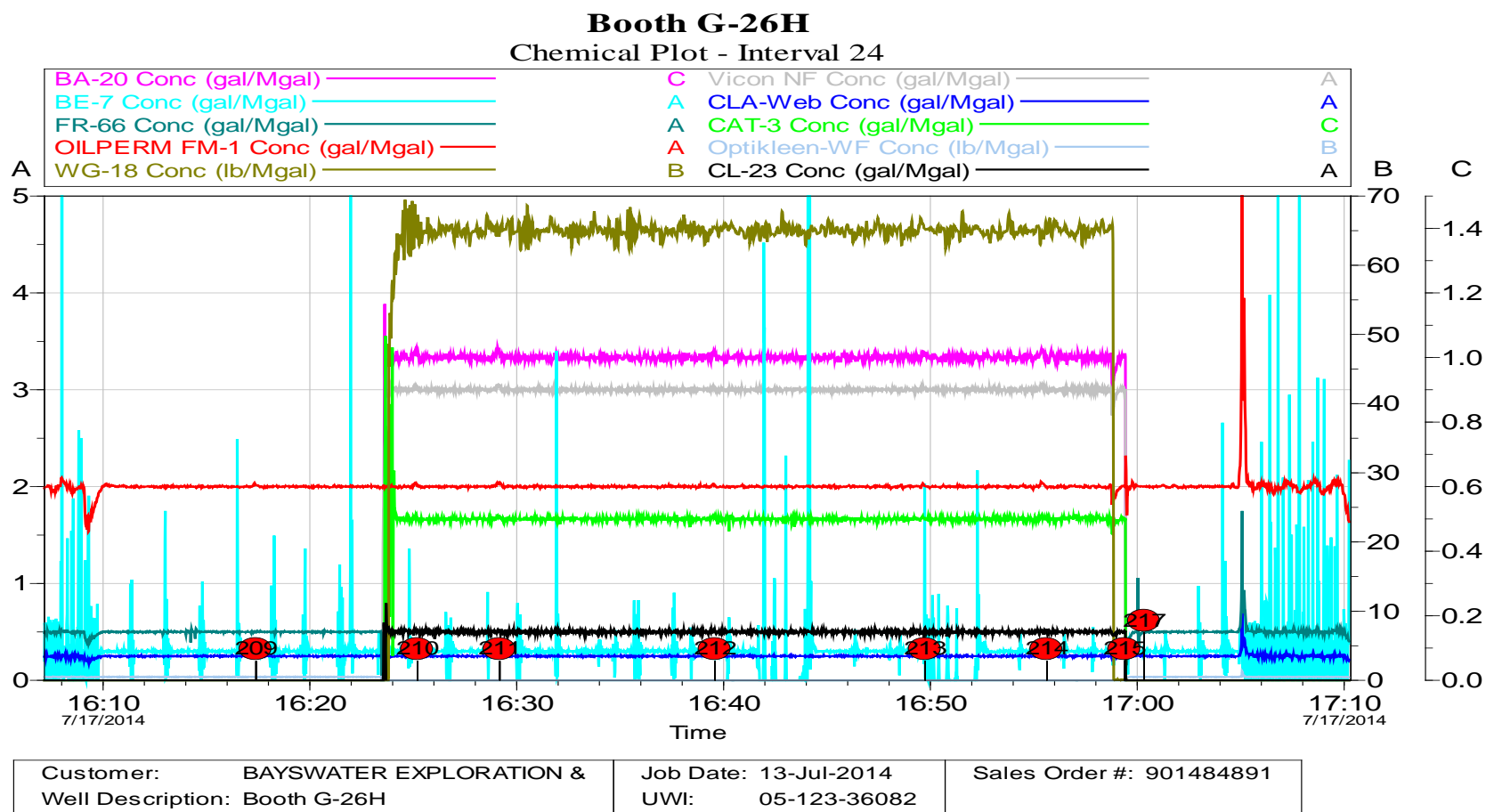


## 2.95 Booth G-26H - QAQC Plot - Interval 24

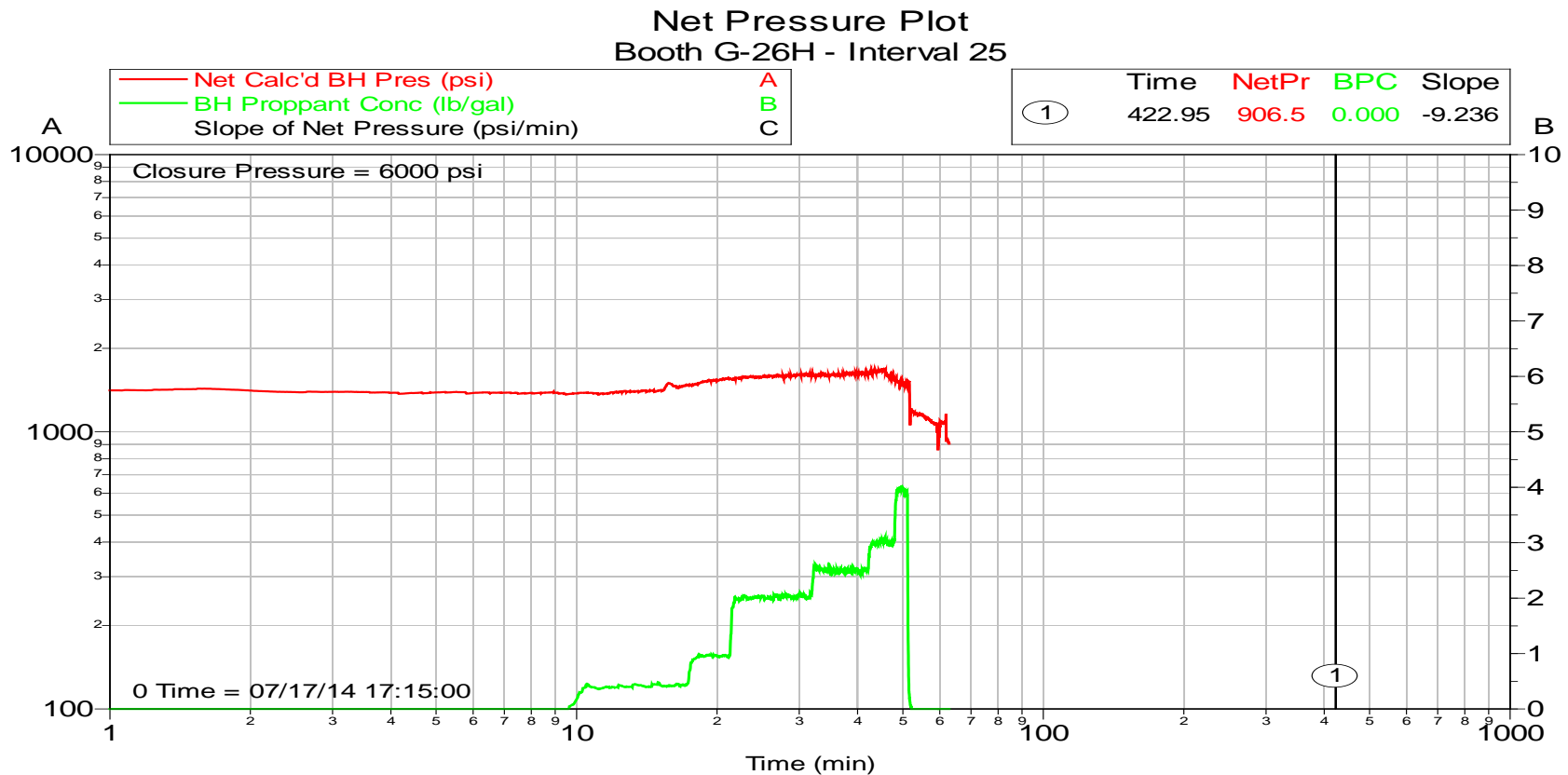


Customer: BAYSWATER EXPLORATION &	Job Date: 13-Jul-2014	Sales Order #: 901484891
Well Description: Booth G-26H	UWI: 05-123-36082	

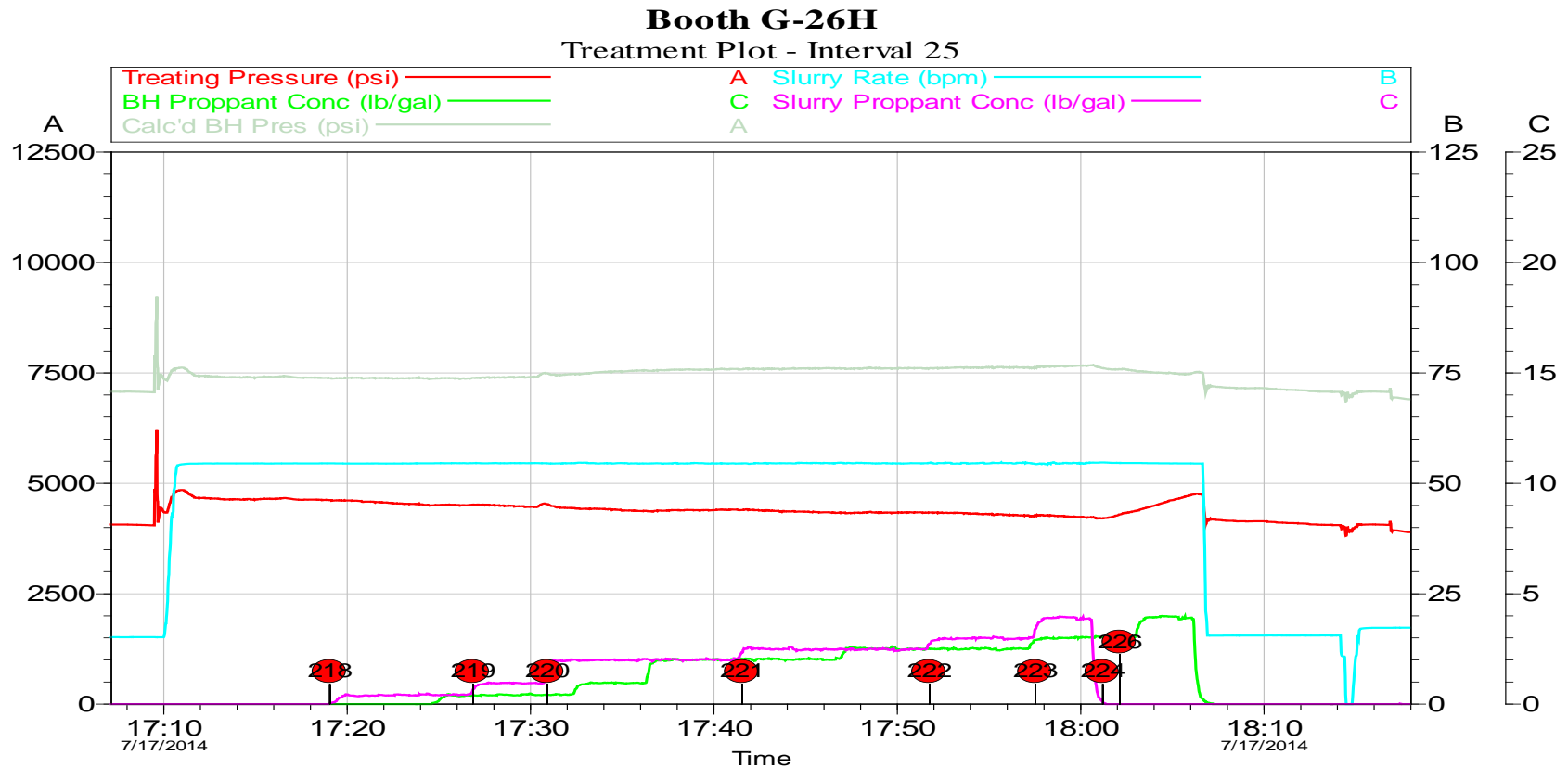
## 2.96 Booth G-26H - Chemical Plot - Interval 24



## 2.97 Net Pressure Plot - Booth G-26H - Interval 25



## 2.98 Booth G-26H - Treatment Plot - Interval 25

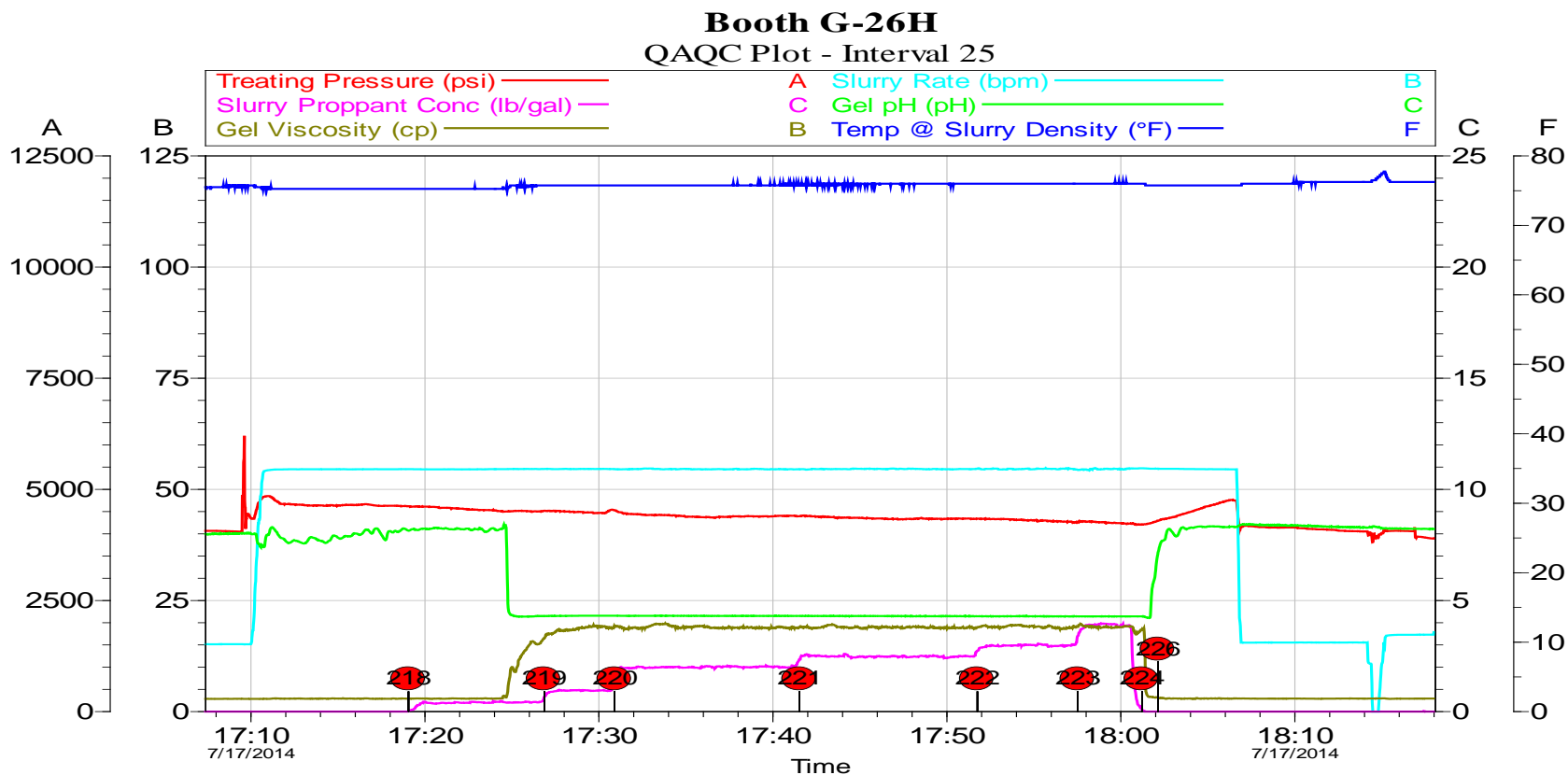


Customer: BAYSWATER EXPLORATION &  
Well Description: Booth G-26H

Job Date: 13-Jul-2014  
UWI: 05-123-36082

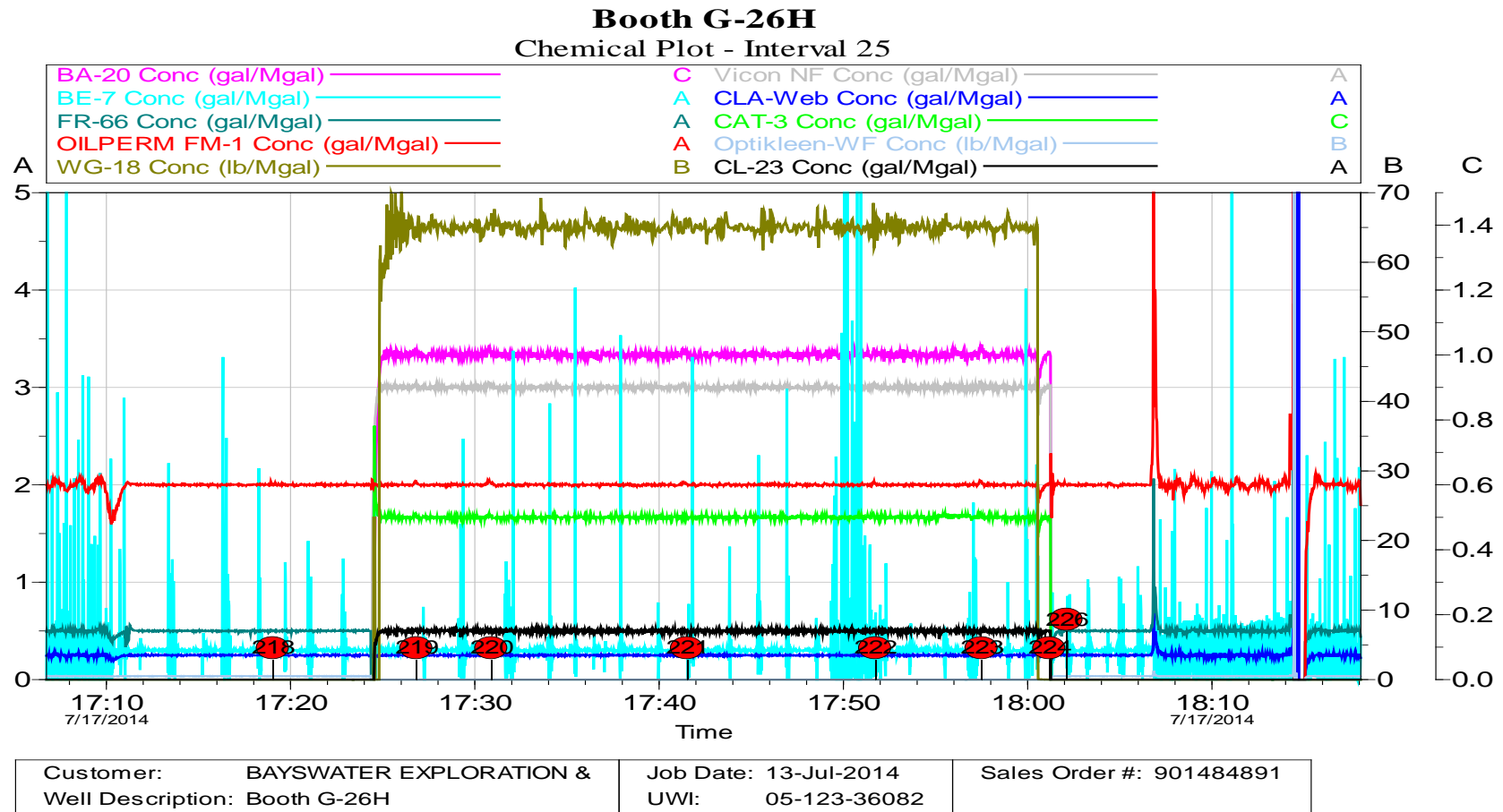
Sales Order #: 901484891

## 2.99 Booth G-26H - QAQC Plot - Interval 25

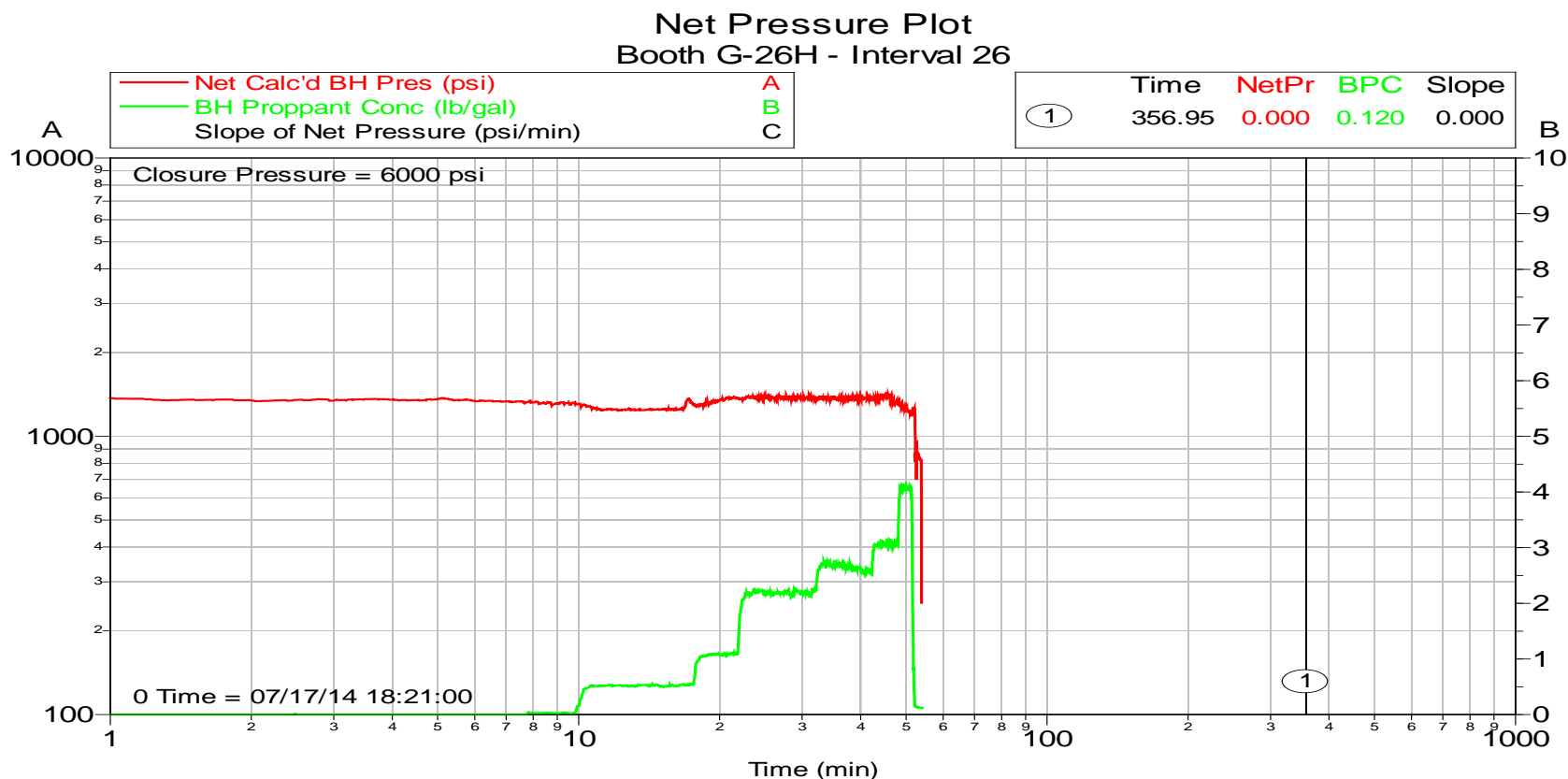


Customer: BAYSWATER EXPLORATION &	Job Date: 13-Jul-2014	Sales Order #: 901484891
Well Description: Booth G-26H	UWI: 05-123-36082	

## 2.100 Booth G-26H - Chemical Plot - Interval 25

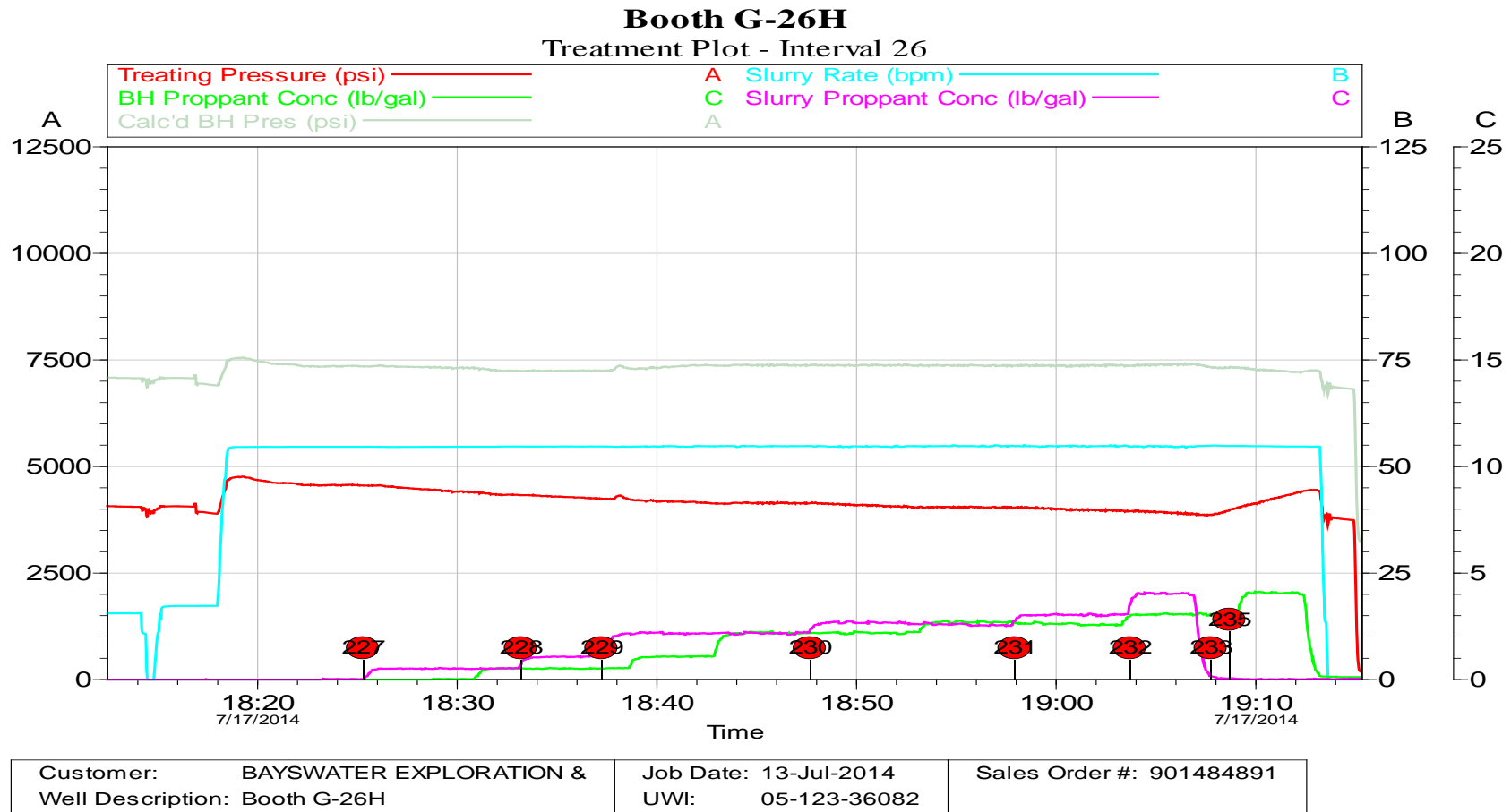


## 2.101 Net Pressure Plot - Booth G-26H - Interval 26

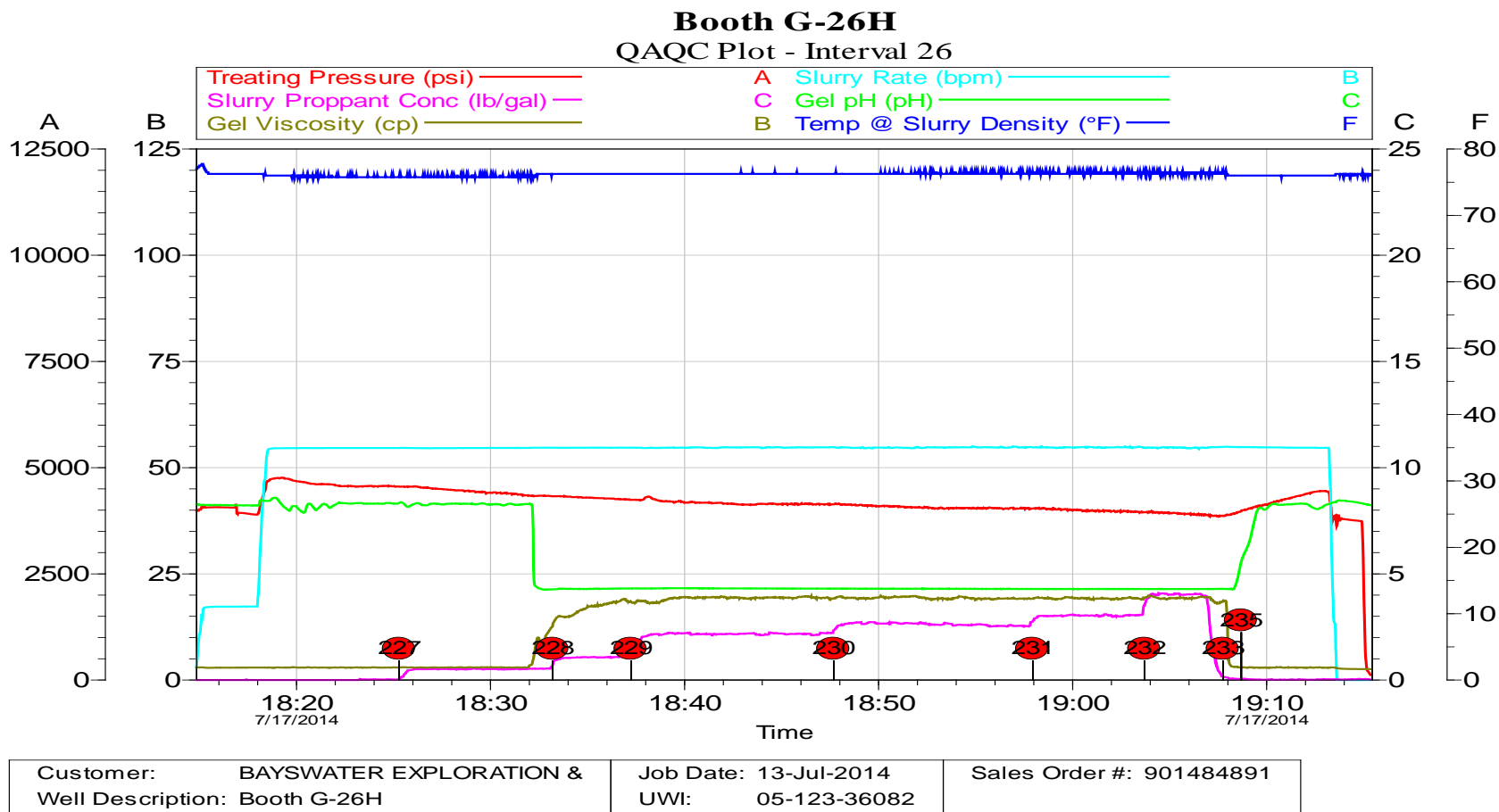


Customer: BAYSWATER EXPLORATION &	Job Date: 13-Jul-2014	Sales Order #: 901484891
Well Description: Booth G-26H	UWI: 05-123-36082	

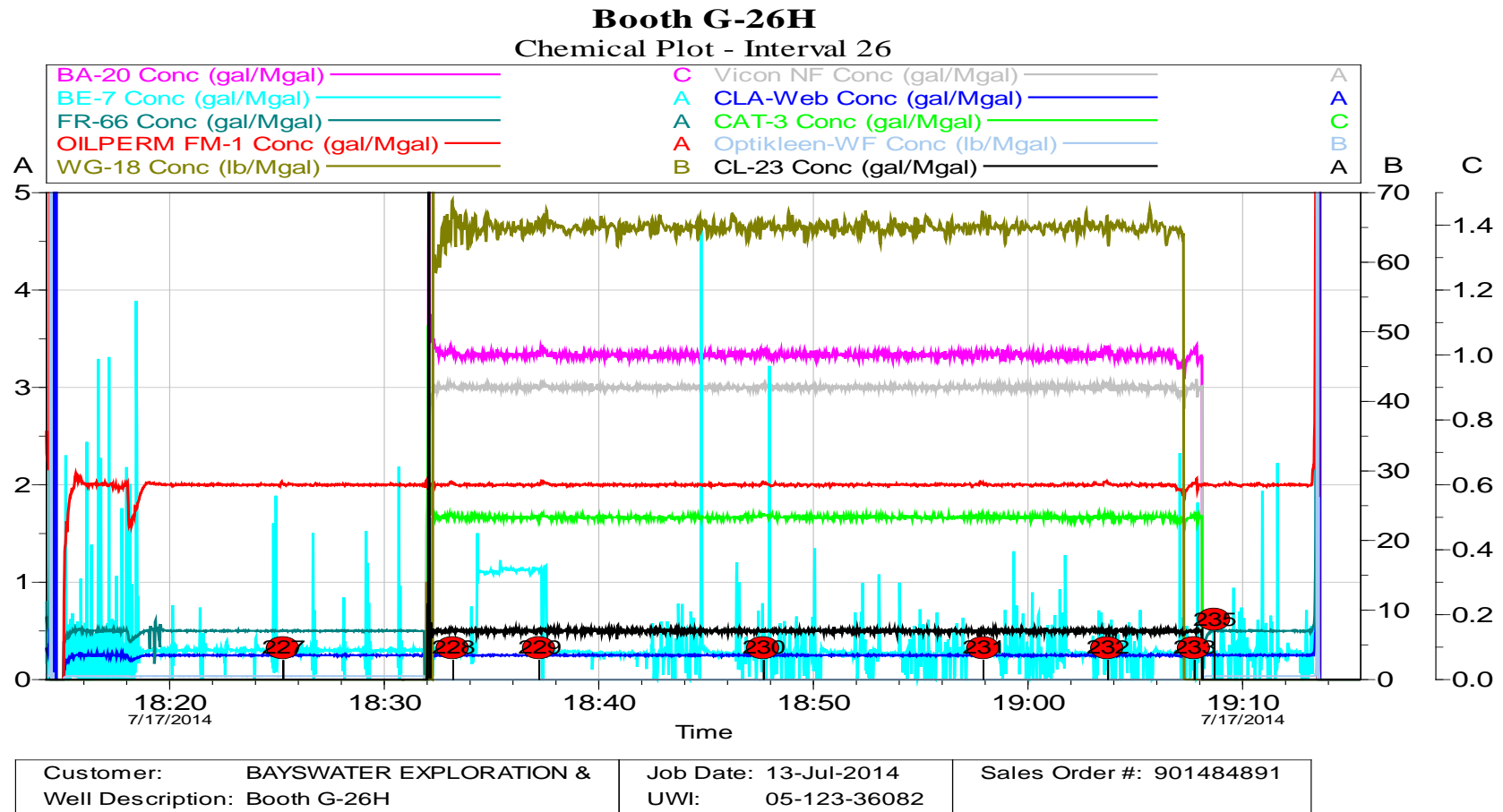
## 2.102 Booth G-26H - Treatment Plot - Interval 26



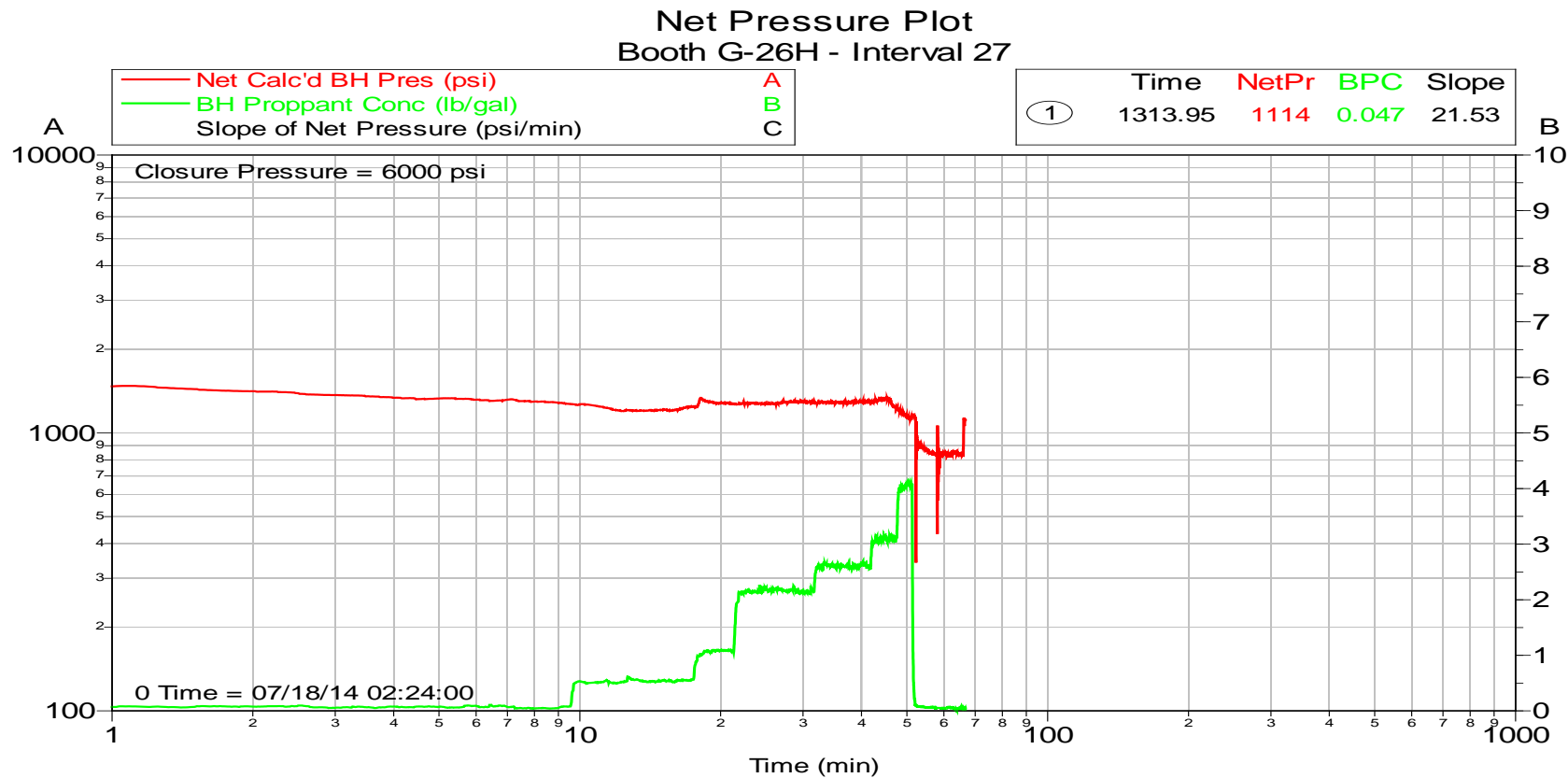
## 2.103 Booth G-26H - QAQC Plot - Interval 26



## 2.104 Booth G-26H - Chemical Plot - Interval 26

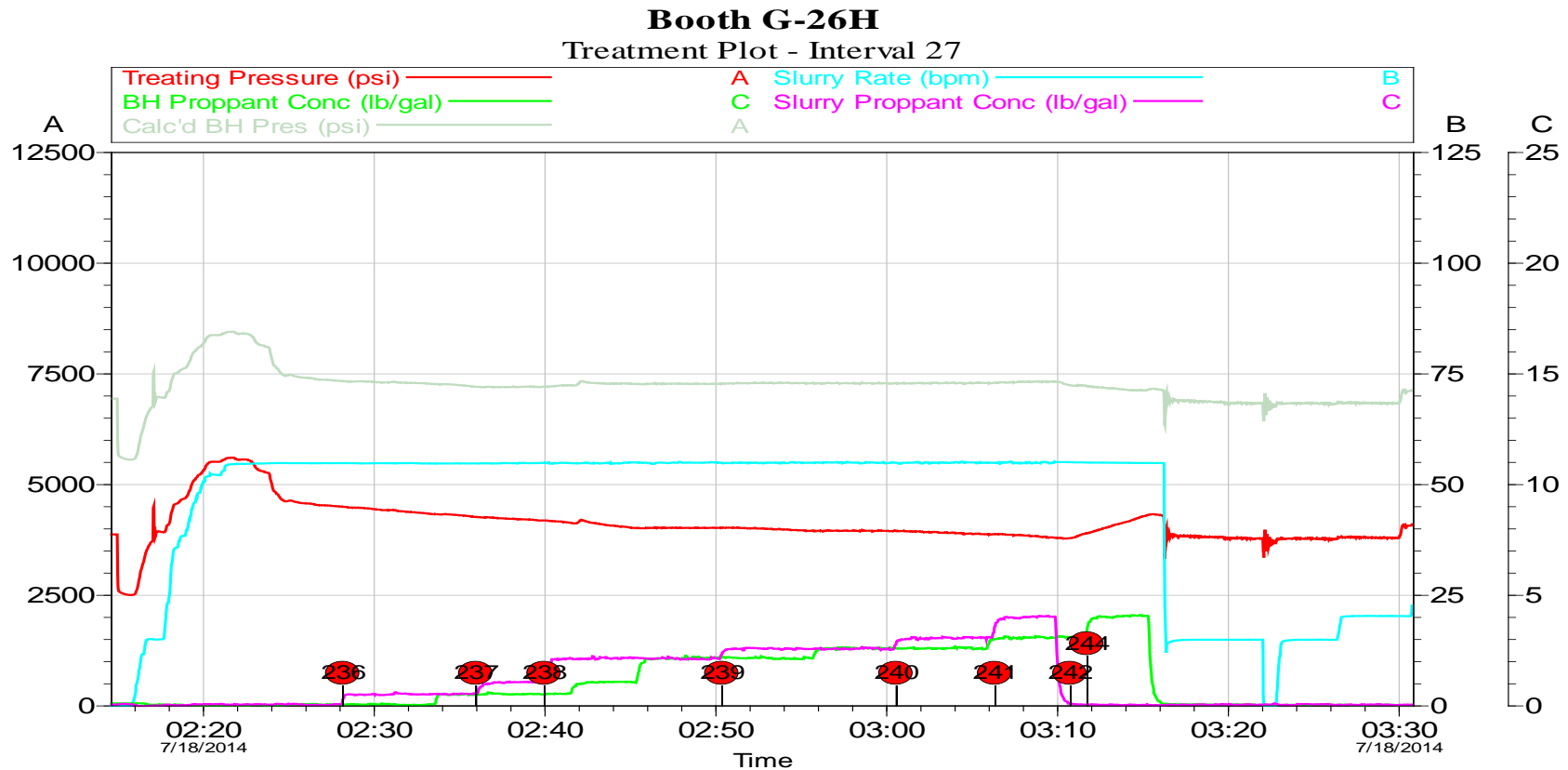


2.105 Net Pressure Plot - Booth G-26H - Interval 27



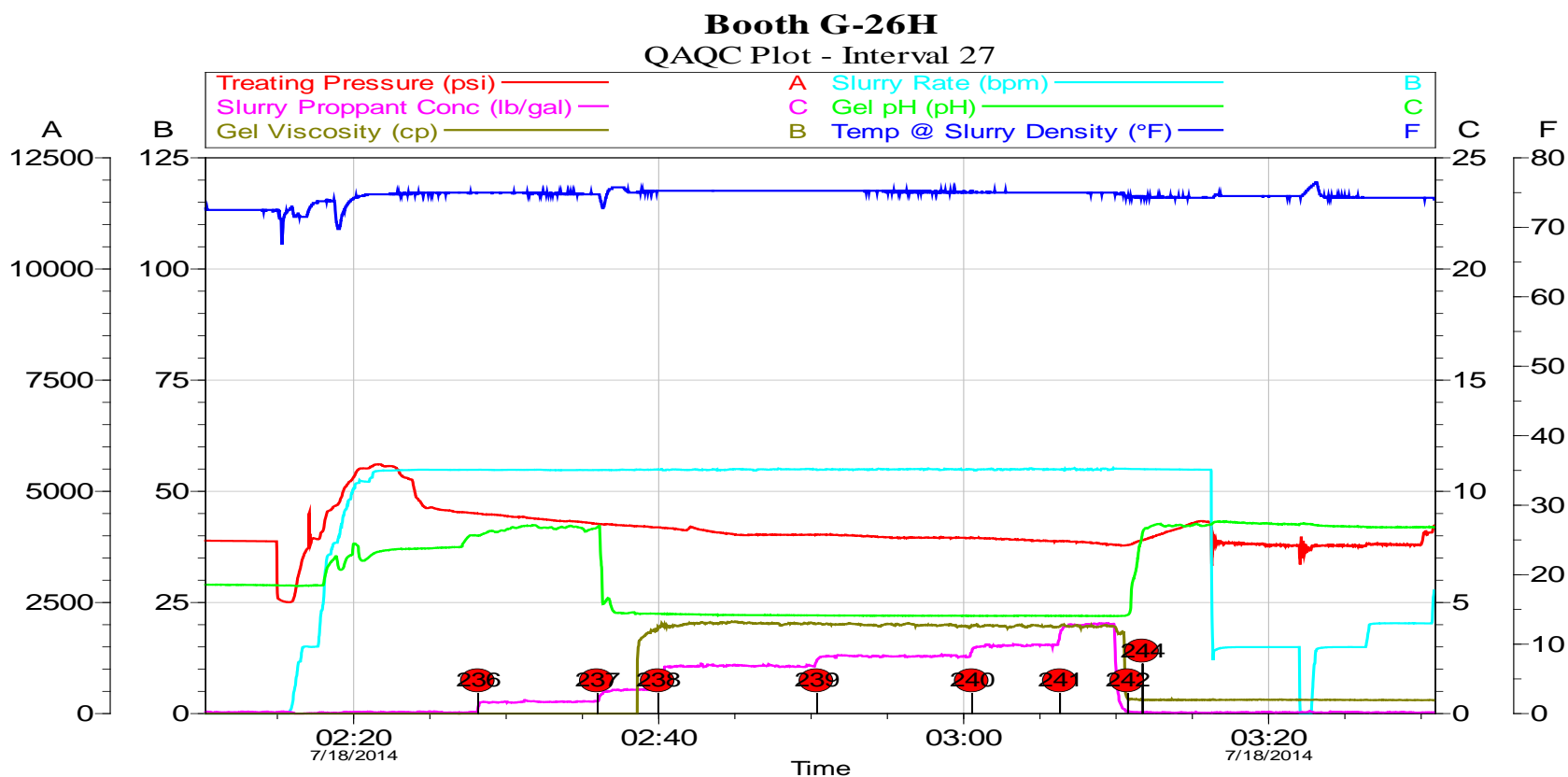
Customer:	BAYSWATER EXPLORATION &	Job Date:	13-Jul-2014	Sales Order #:	901484891
Well Description:	Booth G-26H	UWI:	05-123-36082		

## 2.106 Booth G-26H - Treatment Plot - Interval 27



Customer: BAYSWATER EXPLORATION &	Job Date: 13-Jul-2014	Sales Order #: 901484891
Well Description: Booth G-26H	UWI: 05-123-36082	

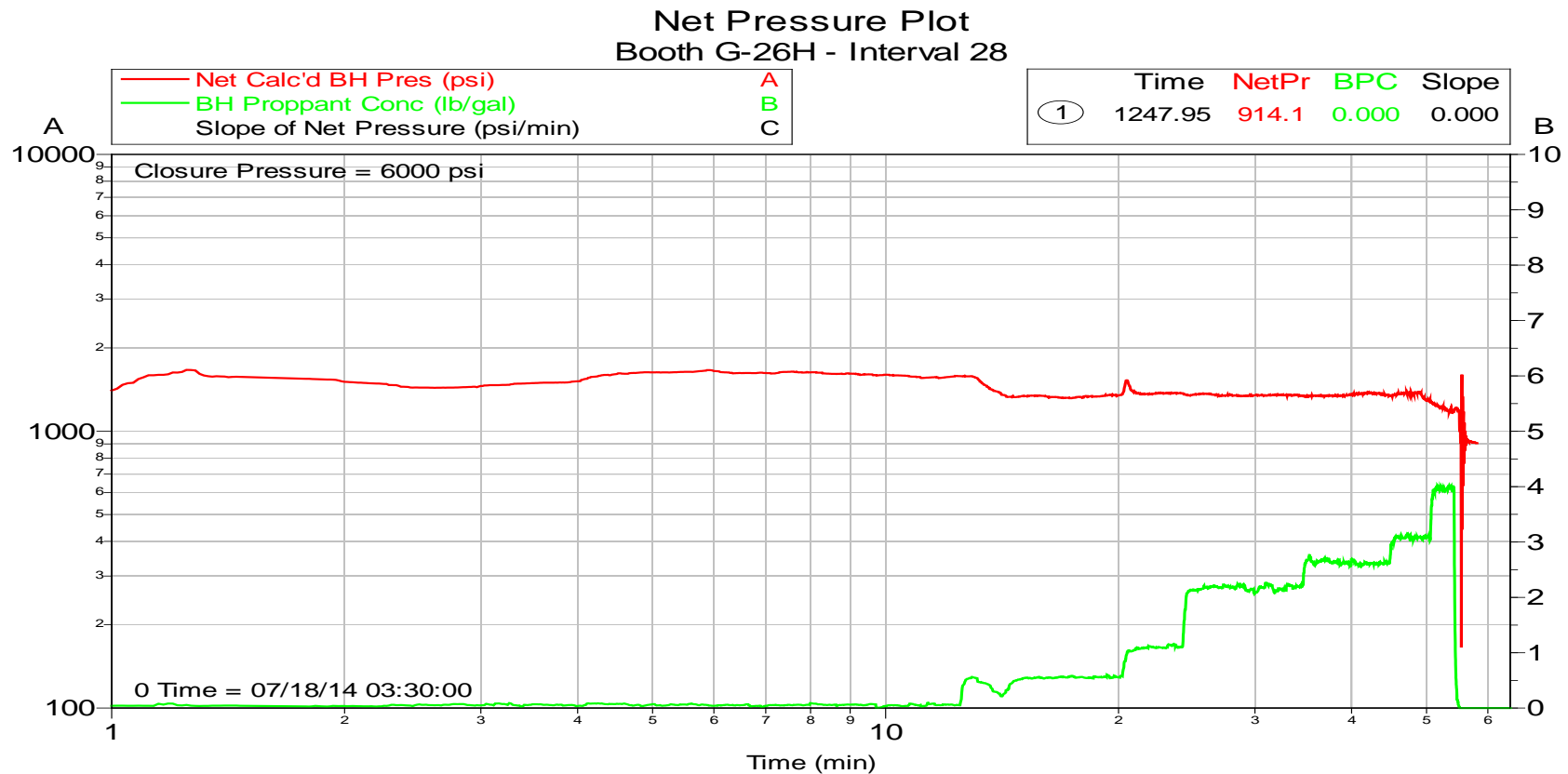
## 2.107 Booth G-26H - QAQC Plot - Interval 27



Customer: BAYSWATER EXPLORATION &	Job Date: 13-Jul-2014	Sales Order #: 901484891
Well Description: Booth G-26H	UWI: 05-123-36082	

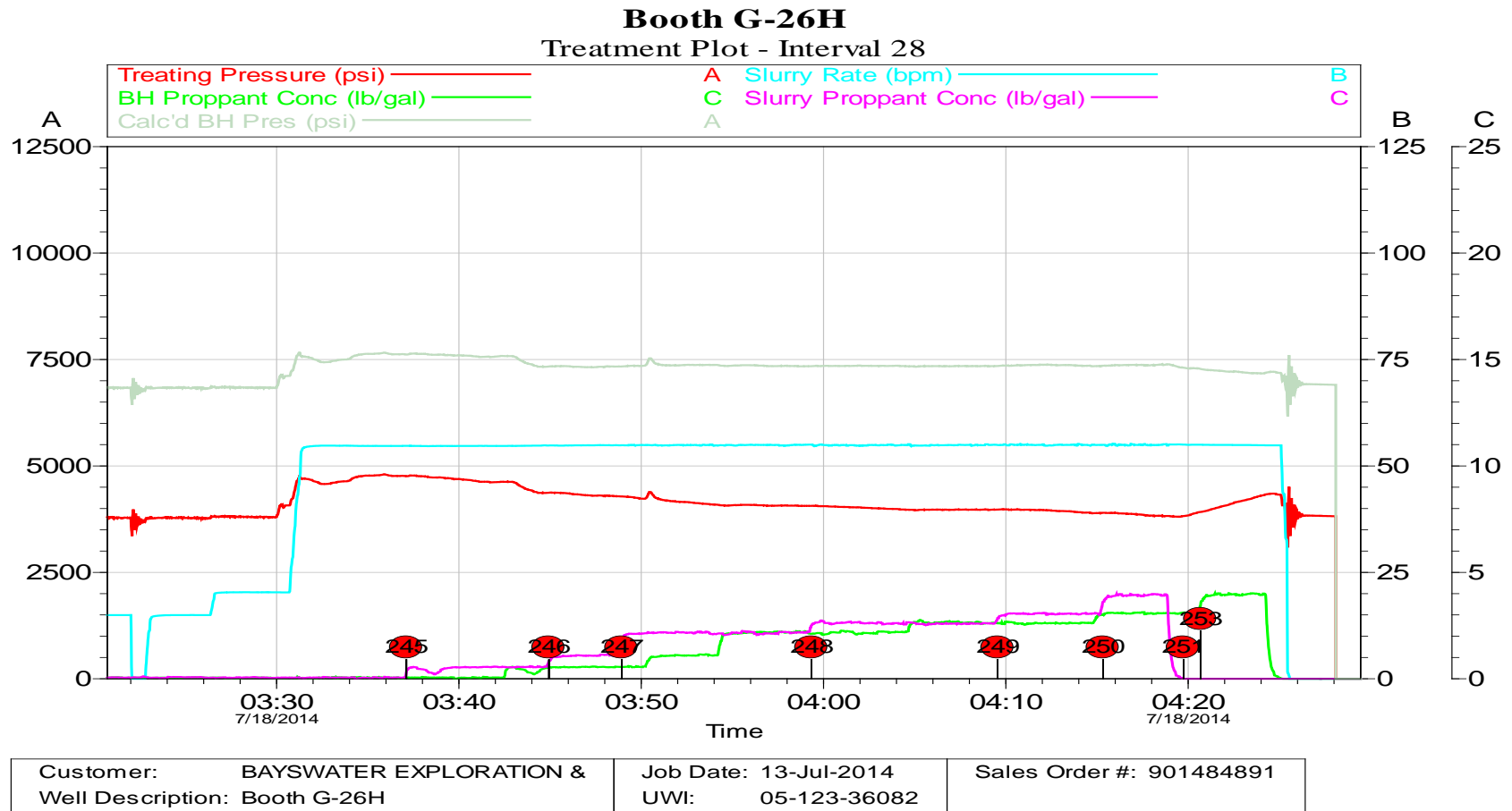


## 2.109 Net Pressure Plot - Booth G-26H - Interval 28

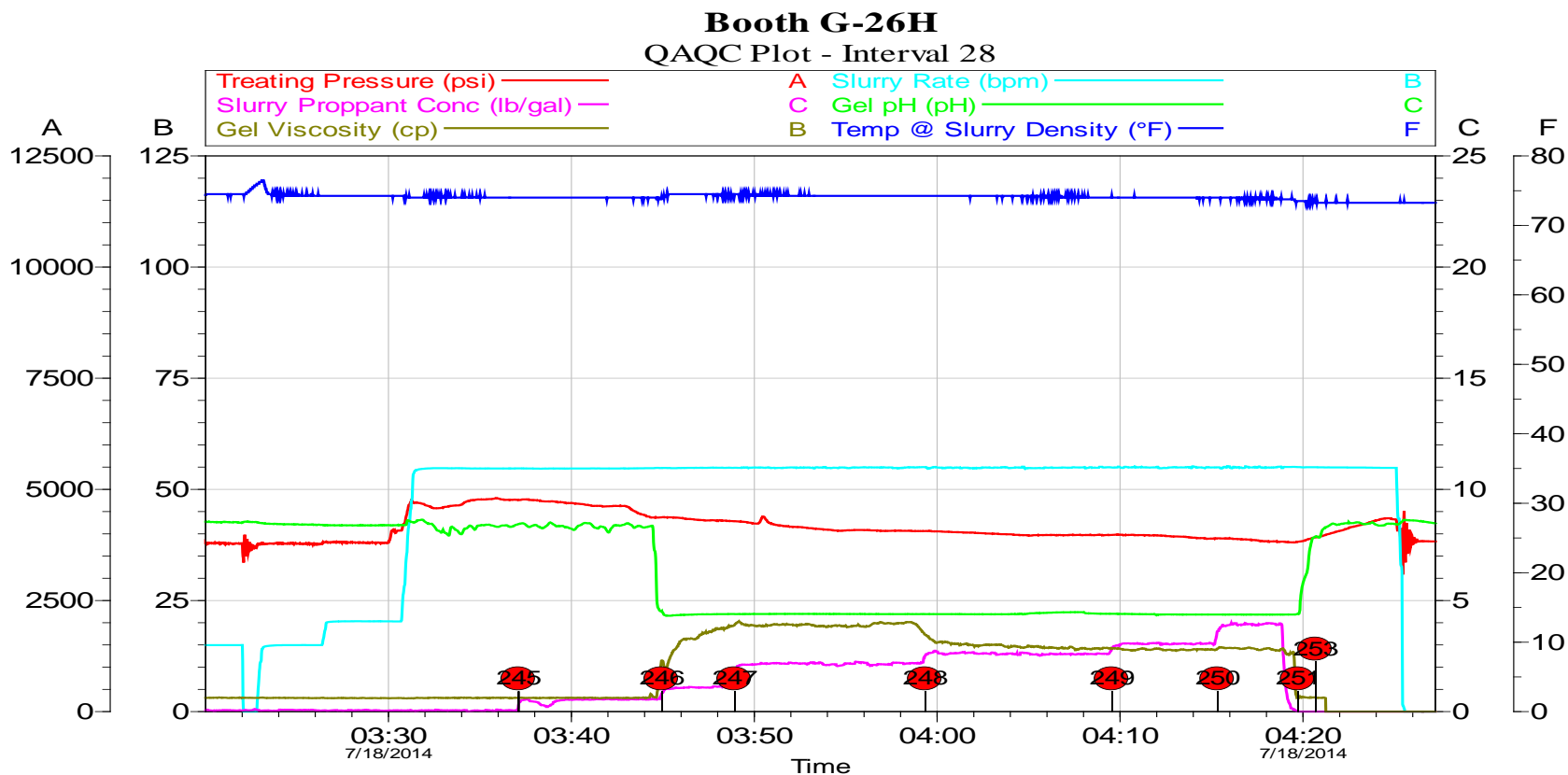


Customer:	BAYSWATER EXPLORATION &	Job Date:	13-Jul-2014	Sales Order #:	901484891
Well Description:	Booth G-26H	UWI:	05-123-36082		

## 2.110 Booth G-26H - Treatment Plot - Interval 28

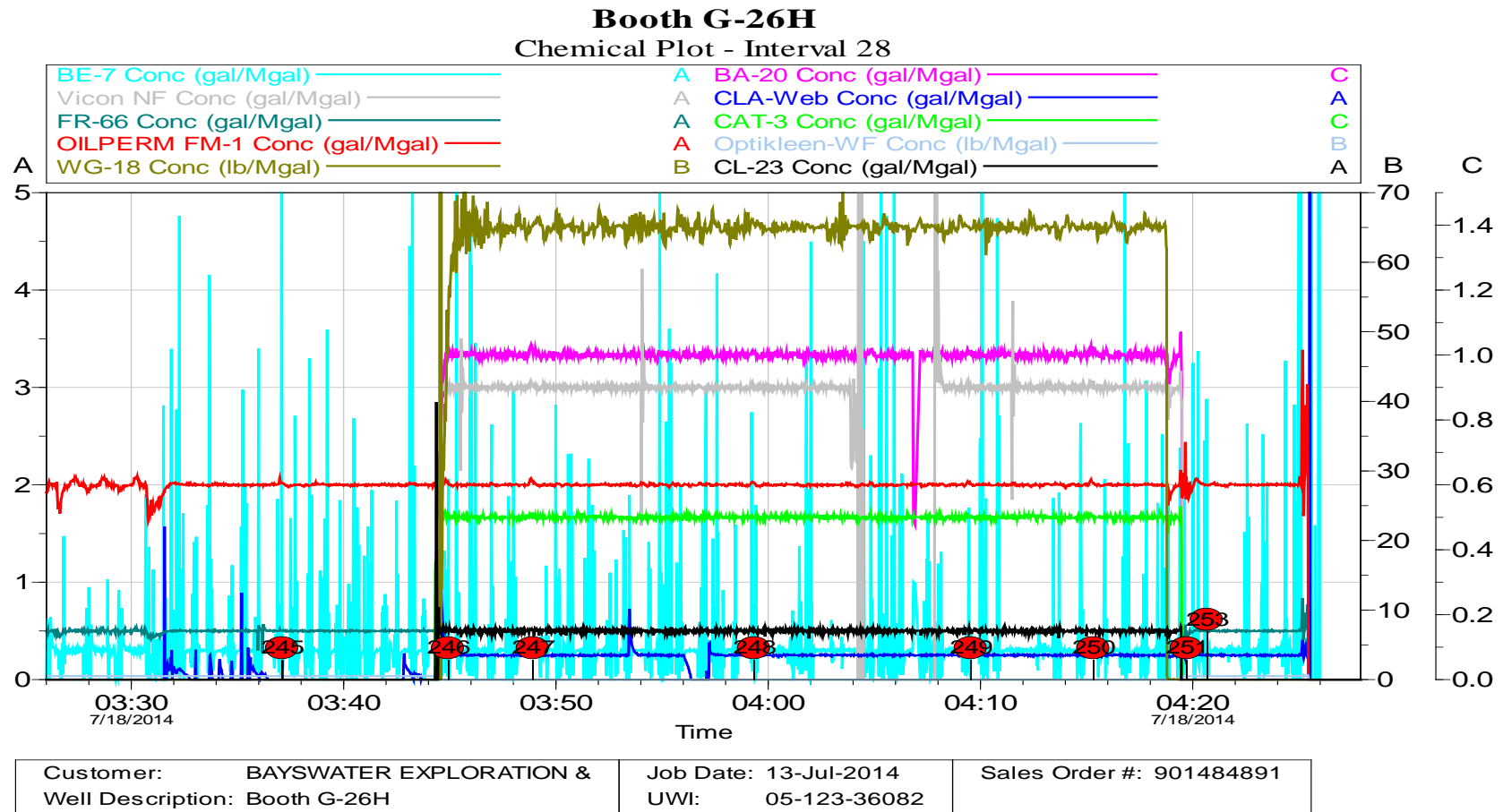


## 2.111 Booth G-26H - QAQC Plot - Interval 28

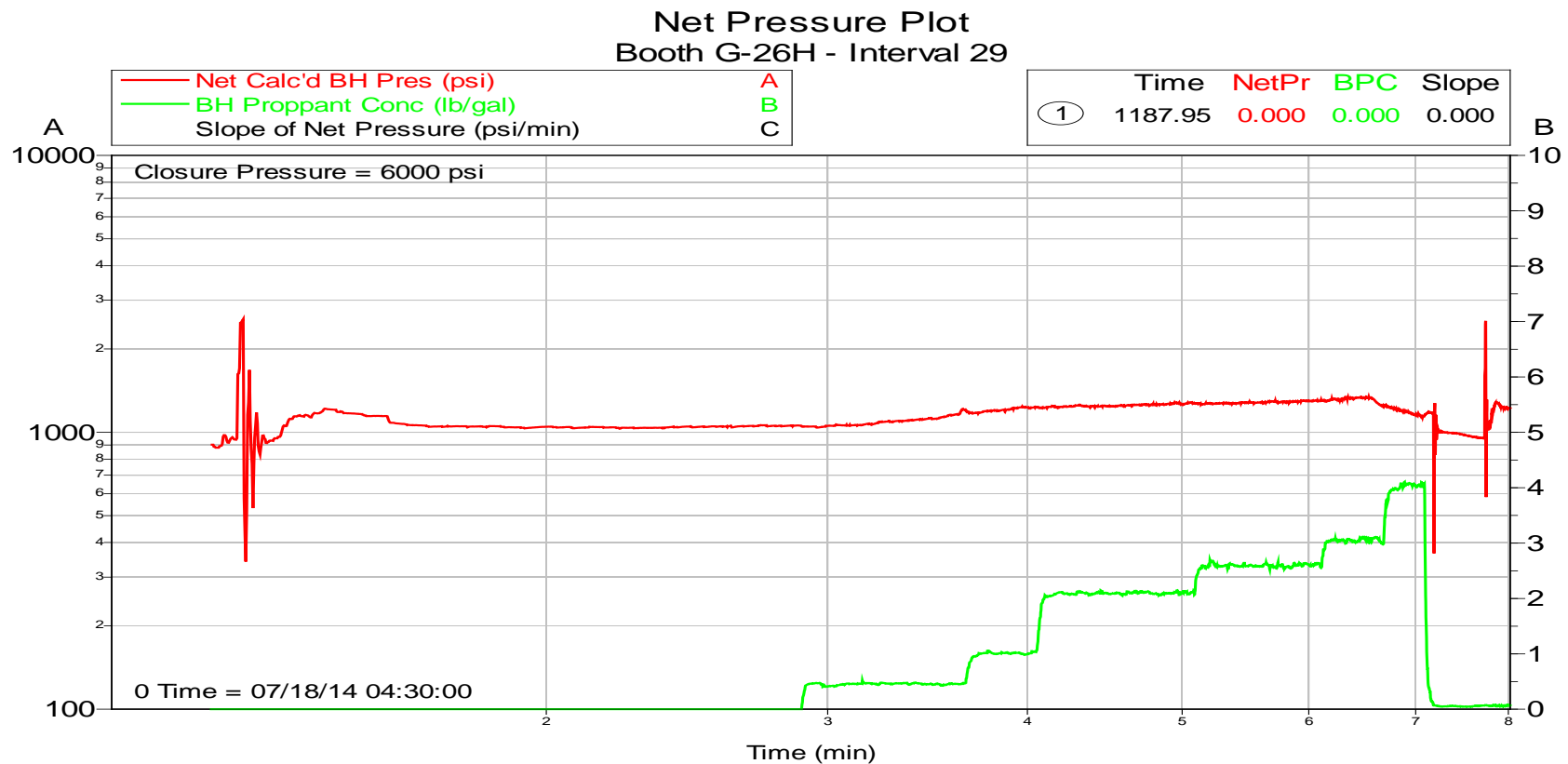


Customer: BAYSWATER EXPLORATION &	Job Date: 13-Jul-2014	Sales Order #: 901484891
Well Description: Booth G-26H	UWI: 05-123-36082	

## 2.112 Booth G-26H - Chemical Plot - Interval 28



## 2.113 Net Pressure Plot - Booth G-26H - Interval 29

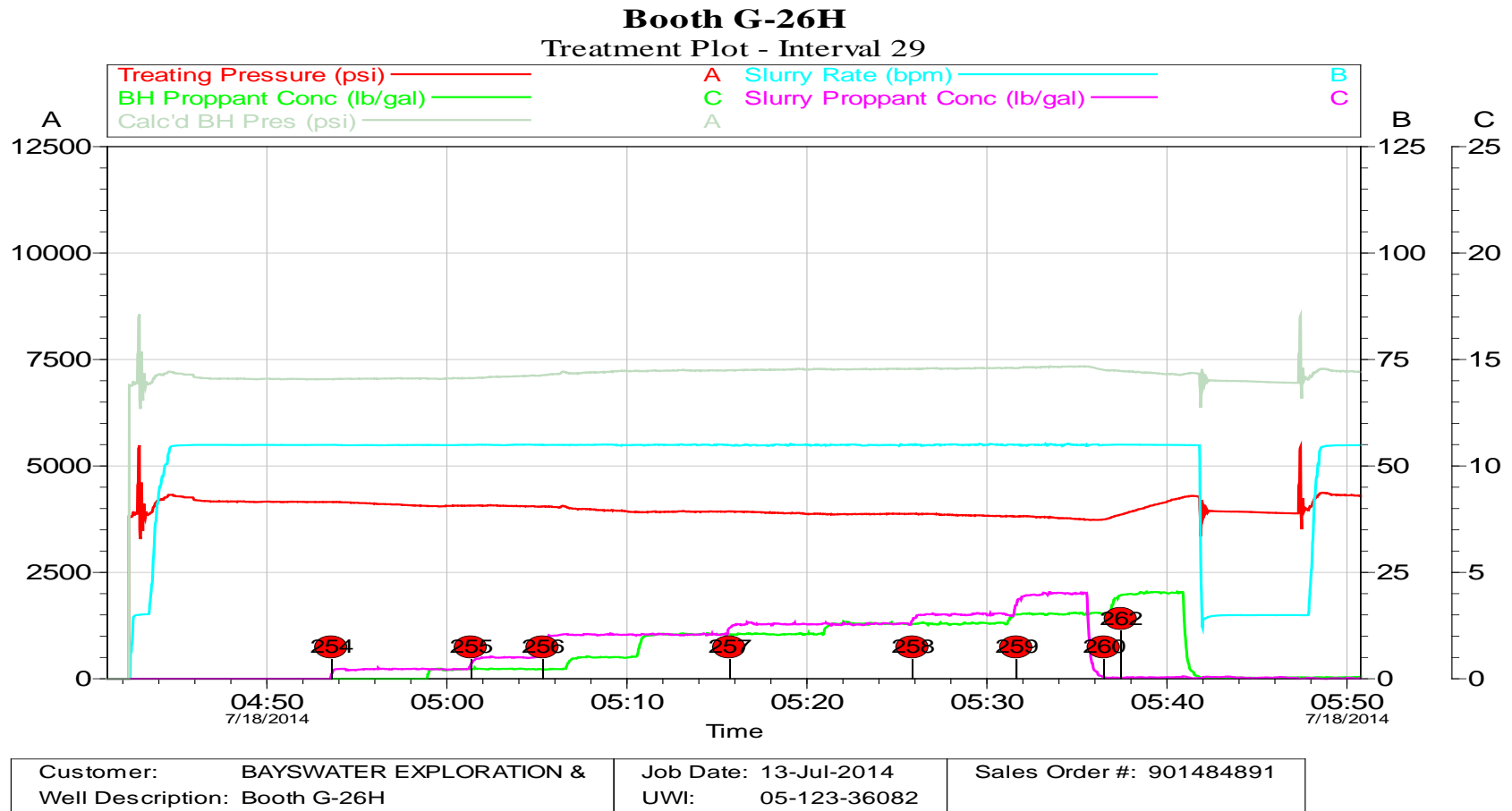


Customer: BAYSWATER EXPLORATION &  
Well Description: Booth G-26H

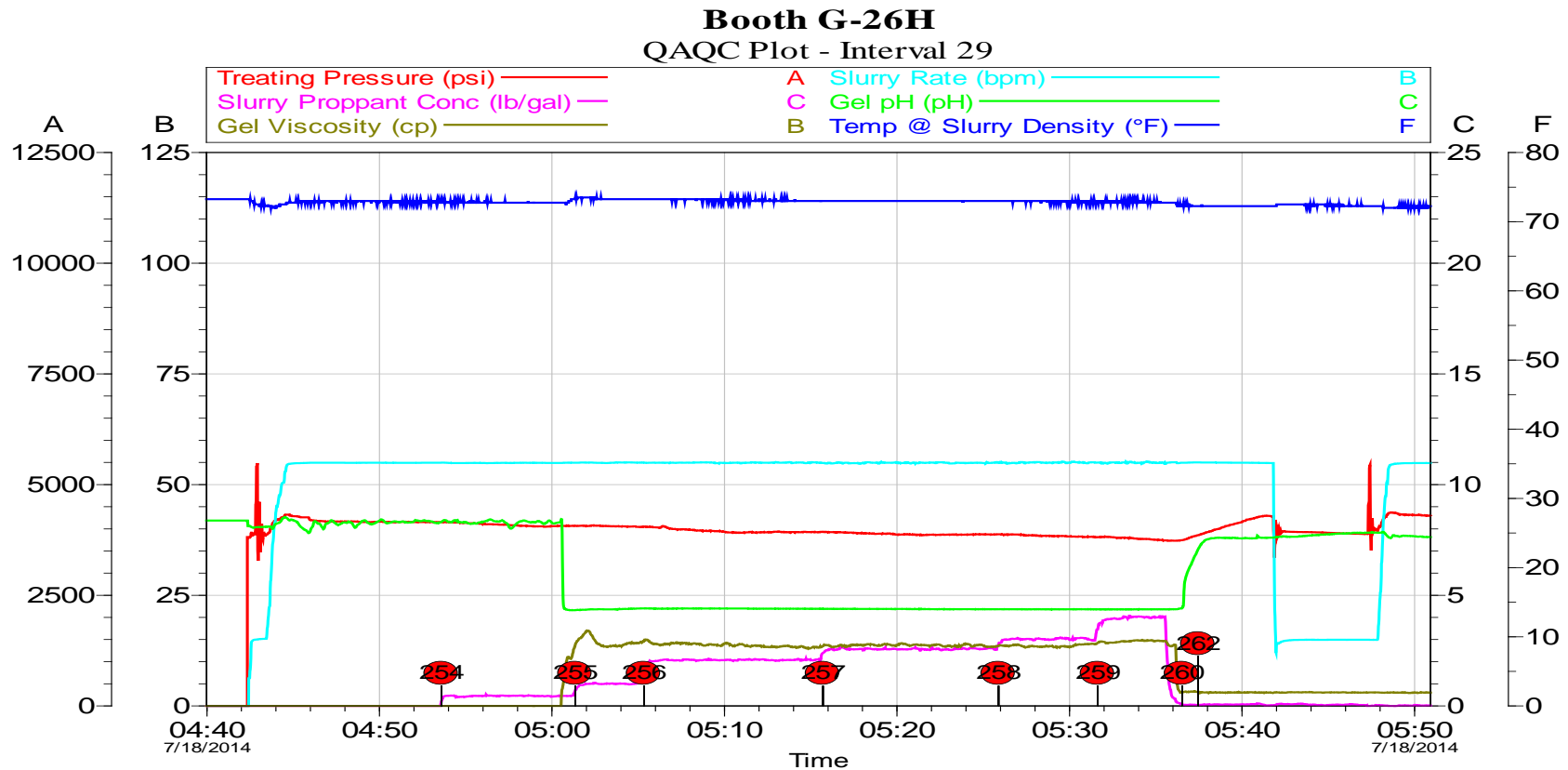
Job Date: 13-Jul-2014  
UWI: 05-123-36082

Sales Order #: 901484891

## 2.114 Booth G-26H - Treatment Plot - Interval 29



## 2.115 Booth G-26H - QAQC Plot - Interval 29

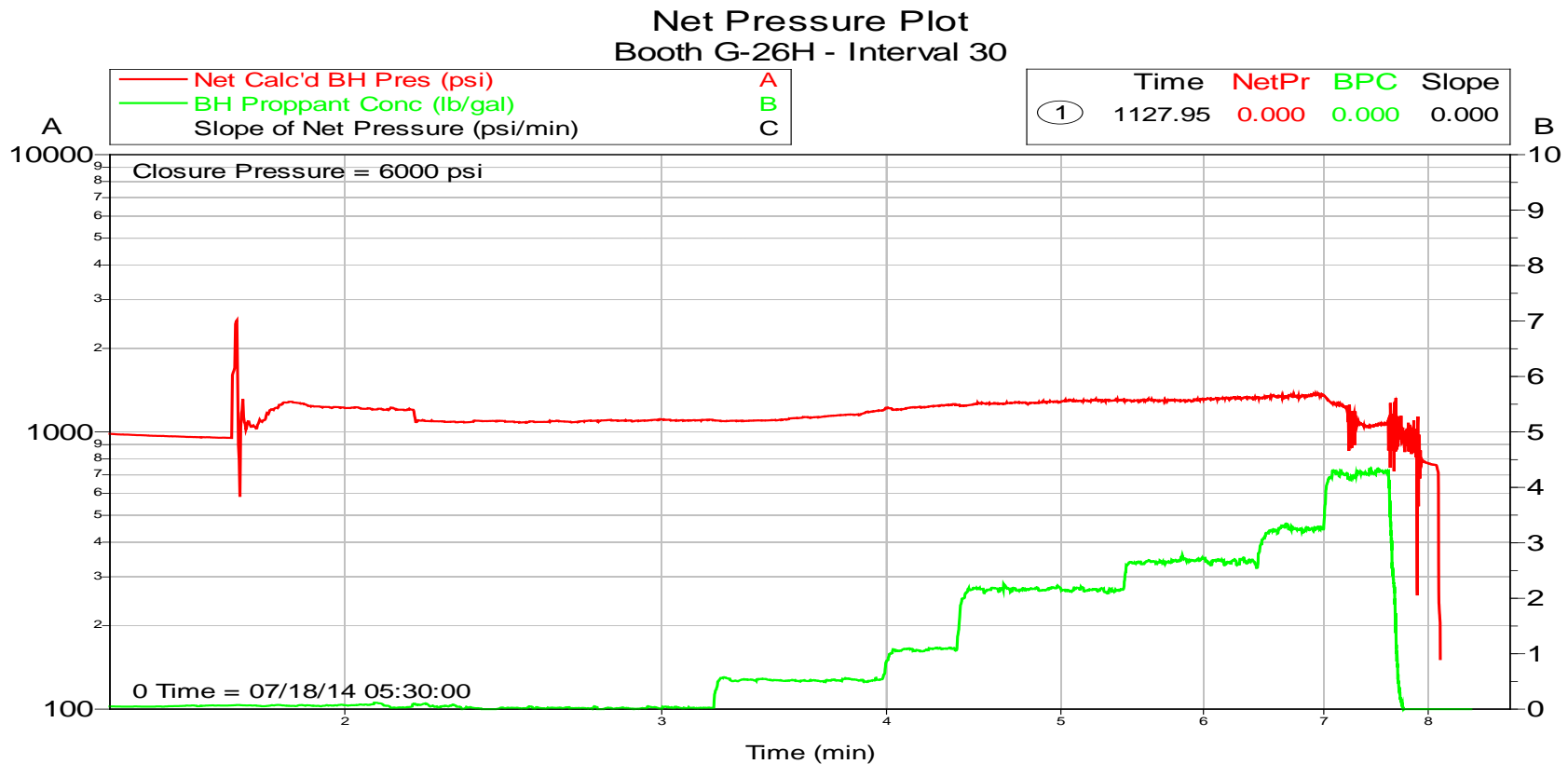


Customer: BAYSWATER EXPLORATION &	Job Date: 13-Jul-2014	Sales Order #: 901484891
Well Description: Booth G-26H	UWI: 05-123-36082	

**Booth G-26H**  
Chemical Plot - Interval 29



## 2.117 Net Pressure Plot - Booth G-26H - Interval 30

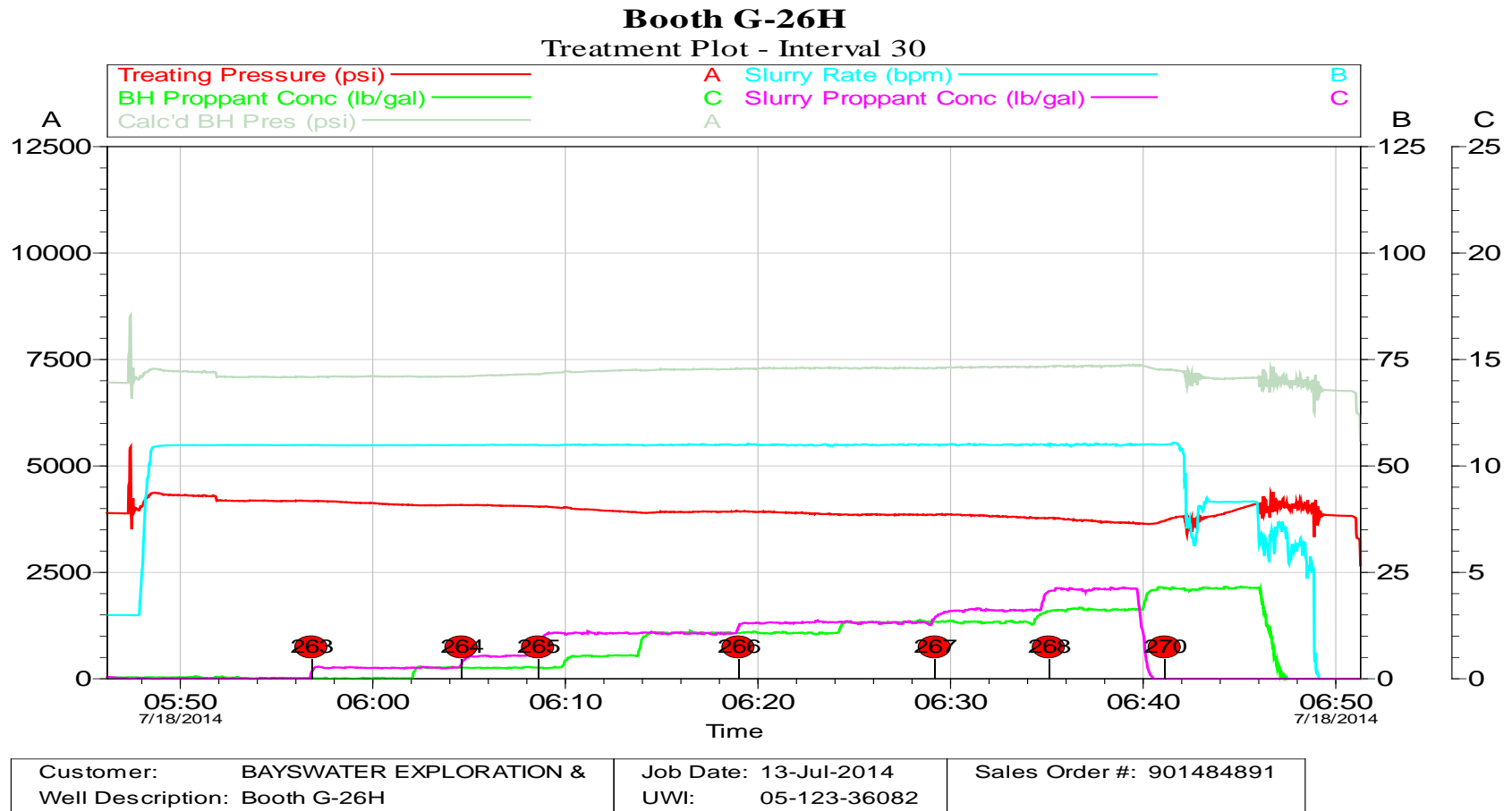


Customer: BAYSWATER EXPLORATION &  
Well Description: Booth G-26H

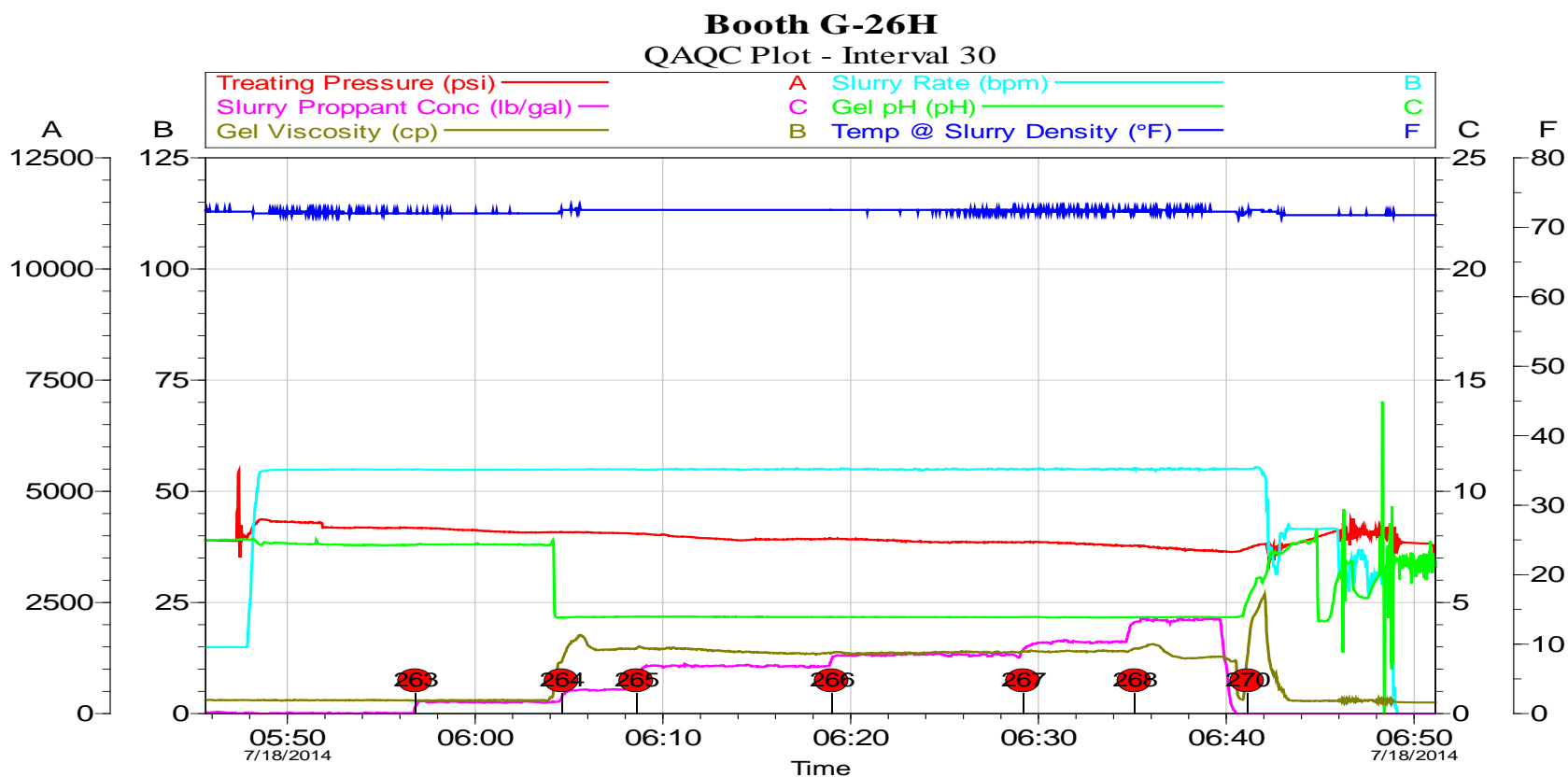
Job Date: 13-Jul-2014  
UWI: 05-123-36082

Sales Order #: 901484891

## 2.118 Booth G-26H - Treatment Plot - Interval 30

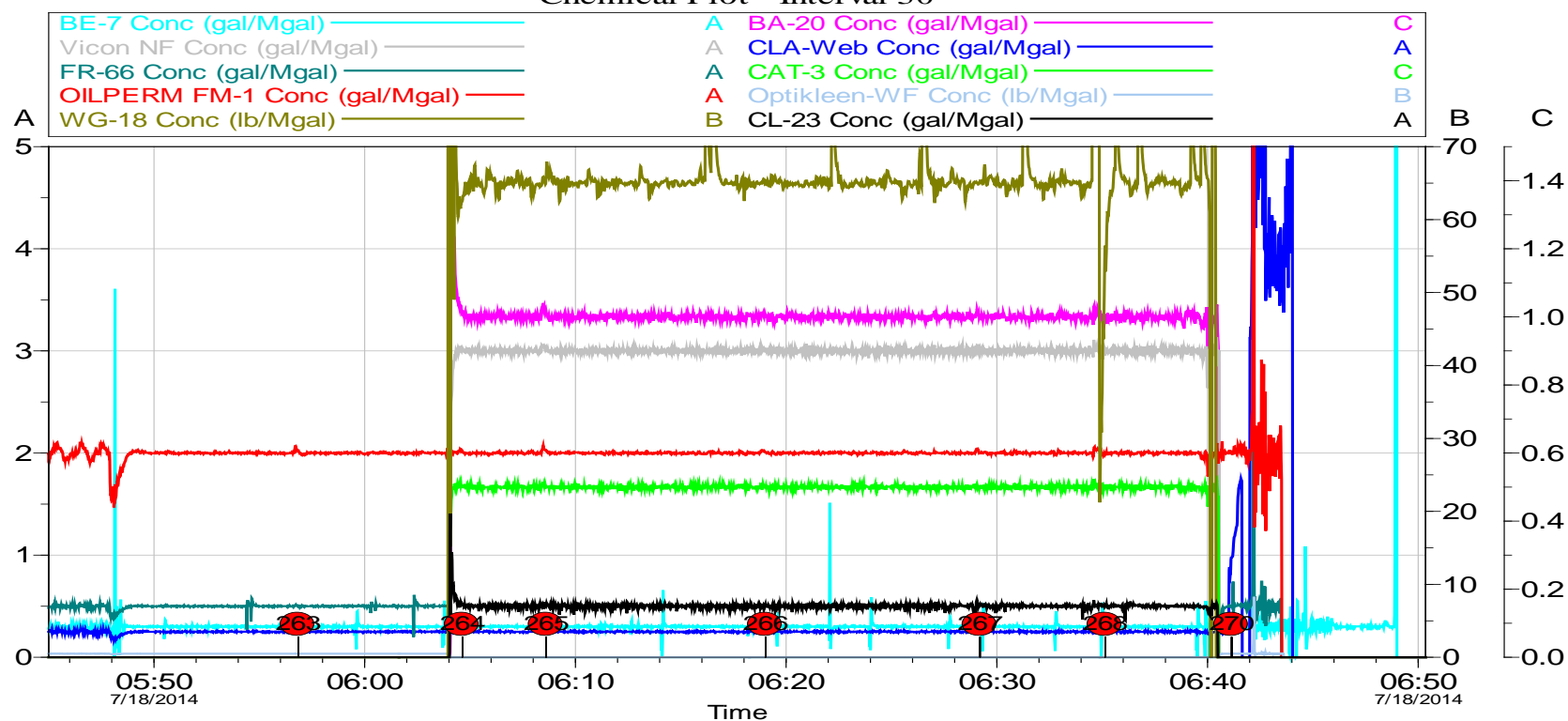


## 2.119 Booth G-26H - QAQC Plot - Interval 30



Customer: BAYSWATER EXPLORATION &	Job Date: 13-Jul-2014	Sales Order #: 901484891
Well Description: Booth G-26H	UWI: 05-123-36082	

**Booth G-26H**  
Chemical Plot - Interval 30



Customer: BAYSWATER EXPLORATION & Well Description: Booth G-26H	Job Date: 13-Jul-2014 UWI: 05-123-36082	Sales Order #: 901484891
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# HALLIBURTON

## Engineering Executive Summary

On July 13, 2014 a stimulation treatment was performed in the Codell formation on the Booth G-26H well. The following information was gathered during the treatment.

Fluid System	FR Water
Fluid System	30# pHaserFrac
Proppant	Premium White 20/40
Formation	Codell
Total Stim-Sleeve Zones	30

Prior to pumping the job, Quality Control tests were conducted on location to determine hydration time, crosslink time, and gel viscosity. Chemical concentrations were adjusted, as needed, according to test results, pump times, and onsite water.

### Treatment Information

#### Zone 1

Treatment Interval Technical Comments:

Start:	13:45	Engineer:	Mike Stempky
End:	16:19	Date:	Sunday, July 13, 2014
Notes:	7/7/2014, started at 9:00. At 9:57 the backside pressure began to increase and Halliburton was instructed to shut down. The wellhead sleeve failed and we are currently rigging down and moving to a new well. 7/13/2014 job resumed. Issues will IFS calculating bottom hole correctly. Ran .5# and 1# long		

#### Zone 2

Treatment Interval Technical Comments:

Start:	16:19	Engineer:	Sherif Elkhatab
End:	18:36	Date:	Sunday, July 13, 2014
Notes:	Limited to low injection rates. Ran interval with XL fluid instead of initial FR Water.		

### Zone 3

#### Treatment Interval Technical Comments:

Start: 18:36

Engineer: Sherif Elkhatib

End: 20:26

Date: Sunday, July 13, 2014

Notes:

Limited to low injection rates. Ran interval with XL fluid instead of initial FR Water.

### **Zone 4**

#### Treatment Interval Technical Comments:

Start:	20:26	Engineer:	Sherif Elkhatib
End:	22:47	Date:	Sunday, July 13, 2014
Notes:	Limited to low injection rates. Ran interval with XL fluid instead of initial FR Water. During 0.50 ppg stage, ACE froze, giving us constant pressure. Cut screws and marked flush at 20:51. Flushed successfully at 21:05. Rebooted ACE and IFS. Resumed pumping at 21:23.		

### **Zone 5**

#### Treatment Interval Technical Comments:

Start:	5:39	Engineer:	Mike Stempky
End:	7:15	Date:	Monday, July 14, 2014
Notes:	pumped to completion. good fluid samples.		

### **Zone 6**

#### Treatment Interval Technical Comments:

Start:	14:58	Engineer:	Mike Stempky
End:	16:35	Date:	Monday, July 14, 2014
Notes:	pumped to completion, good fluid samples. MicroMotion for OilPerm and BE-7 stopped functioning during interval. Customer requested to come offline after flushing well and fix issue.		

## **Zone 7**

### Treatment Interval Technical Comments:

Start: 20:02

Engineer: Sherif Elkhatib

End: 21:34

Date: Monday, July 14, 2014

Notes:

pumped to completion. good fluid samples.

### **Zone 8**

#### Treatment Interval Technical Comments:

Start: 0:50

Engineer: Sherif Elkhatib

End: 2:16

Date: Tuesday, July 15, 2014

Notes: pumped to completion. good fluid samples.

### **Zone 9**

#### Treatment Interval Technical Comments:

Start: 6:47

Engineer: Vince Ciaramitaro

End: 8:03

Date: Tuesday, July 15, 2014

Notes: Saw a 300 psi drop in pressure at displacement for ball @ sleeve. Continued with interval per customer. Oil perm chemical was shut off when transitioning to Crosslink fluid and was not turned back on until the middle of the 3.0# stage. Lost two pumps in the middle of the 3.0# stage due to engine failures. Investigating issue currently. Interval pumped to completion as designed. Great crosslink samples throughout. ISIP: 3931 psi , FG = 0.98 psi / ft.

### **Zone 10**

#### Treatment Interval Technical Comments:

Start: 16:45

Engineer: Sherif Elkhatib

End: 17:58

Date: Wednesday, July 16, 2014

Notes: Due to district shortages this and the remaining stages will be pumped with 30/50 White Sand instead of 20/40 white sand.

## **Zone 11**

### Treatment Interval Technical Comments:

Start: 17:58

Engineer: Sherif Elkhatib

End: 19:04

Date: Wednesday, July 16, 2014

Notes:

Interval pumped to completion with no issues.

### **Zone 12**

#### Treatment Interval Technical Comments:

Start: 19:04

Engineer: Sherif Elkhatib

End: 20:08

Date: Wednesday, July 16, 2014

Notes:

Interval pumped to completion with no issues.

### **Zone 13**

#### Treatment Interval Technical Comments:

Start: 20:08

Engineer: Sherif Elkhatib

End: 21:13

Date: Wednesday, July 16, 2014

Notes:

Interval pumped to completion with no issues.

### **Zone 14**

#### Treatment Interval Technical Comments:

Start: 21:13

Engineer: Sherif Elkhatib

End: 22:17

Date: Wednesday, July 16, 2014

Notes:

Interval pumped to completion with no issues.

## **Zone 15**

### Treatment Interval Technical Comments:

Start: 22:17

Engineer: Sherif Elkhatib

End: 23:21

Date: Wednesday, July 16, 2014

Notes:

Interval pumped to completion with no issues.

### **Zone 16**

#### Treatment Interval Technical Comments:

Start: 23:21

Engineer: Sherif Elkhatib

End: 0:22

Date: Wednesday, July 16, 2014

Notes: Interval pumped to completion with no issues. Dropped next ball during flush and shut down before sleeve shift. Down to wait for sand.

### **Zone 17**

#### Treatment Interval Technical Comments:

Start: 8:45

Engineer: Vincent Caramitaro

End: 9:54

Date: Thursday, July 17, 2014

Notes: Resumed and shifted sleeve. Interval pumped to completion with no issues.

### **Zone 18**

#### Treatment Interval Technical Comments:

Start: 9:54

Engineer: Vince Ciaramitaro

End: 10:57

Date: Thursday, July 17, 2014

Notes: Good ball hit and sleeve shift. Interval pumped to completion with no issues.

### **Zone 19**

Treatment Interval Technical Comments:

Start: 10:57

Engineer: Vince Ciaramitaro

End: 11:58

Date: Thursday, July 17, 2014

Notes: Interval pumped to completion with no issues. Good crosslink samples throughout.

### **Zone 20**

#### Treatment Interval Technical Comments:

Start: 11:58

Engineer: Vince Ciaramitaro

End: 12:59

Date: Thursday, July 17, 2014

Notes: Good sleeve shift. Great crosslink fluid samples throughout interval. During 3.0# sand, oil cooler on grizzly pump exploded. Took pump offline and it will be taken back to the yard. Interval pumped to completion.

### **Zone 21**

#### Treatment Interval Technical Comments:

Start: 12:59

Engineer: Vince Ciaramitaro

End: 14:01

Date: Thursday, July 17, 2014

Notes: Good ball hit and sleeve shift. Interval pumped to completion as designed.

### **Zone 22**

#### Treatment Interval Technical Comments:

Start: 14:01

Engineer: Vince Ciaramitaro

End: 15:03

Date: Thursday, July 17, 2014

Notes: Good ball hit and sleeve shift. Interval pumped to completion with all designed sand downhole.

## **Zone 23**

### Treatment Interval Technical Comments:

Start: 15:03

Engineer: Vince Ciaramitaro

End: 16:08

Date: Thursday, July 17, 2014

Notes: Good ball hit and sleeve shift. Interval pumped to completion with all designed sand downhole.

### **Zone 24**

#### Treatment Interval Technical Comments:

Start: 16:08

Engineer: Sherif Elkhatib

End: 17:09

Date: Thursday, July 17, 2014

Notes: Good ball hit and sleeve shift. Interval pumped to completion with all designed sand downhole.

### **Zone 25**

#### Treatment Interval Technical Comments:

Start: 17:09

Engineer: Sherif Elkhatib

End: 18:17

Date: Thursday, July 17, 2014

Notes: Interval pumped to completion, as per design.

### **Zone 26**

#### Treatment Interval Technical Comments:

Start: 18:17

Engineer: Sherif Elkhatib

End: 19:14

Date: Thursday, July 17, 2014

Notes: Good ball hit and sleeve shift. Interval pumped to completion with all designed sand downhole. Shut down prior to shifting sleeve for Interval 27 to wait on sand.

## **Zone 27**

### Treatment Interval Technical Comments:

Start: 2:16

Engineer: Sherif Elkhatib

End: 3:30

Date: Friday, July 18, 2014

Notes: Interval pumped to completion, as per design. Ball did not seat initially. Surged well and seated ball 160 bbls late.

## **Zone 28**

### Treatment Interval Technical Comments:

Start: 3:30

Engineer: Vince Ciaramitaro

End:

Date: Friday, July 18, 2014

Notes: Interval pumped to completion as designed. Dropped next ball and shut down before shifting sleeve to strap the sand on location. ISIP: 3909 psi, FG: 0.98 psi / ft.

## Zone 29

### Treatment Interval Technical Comments:

Start: 4:43	Engineer: Vince Ciaramitaro
End: 5:47	Date: Friday, July 18, 2014
Notes: Determined that final load of sand was needed to be completely offloaded. Resumed and shifted sleeve. Interval pumped to completion as designed.	

## Zone 30

### Treatment Interval Technical Comments:

Start: 5:47	Engineer: Vince Ciaramitaro
End: 6:50	Date: Friday, July 18, 2014
Notes: Good Sleeve shift. Interval pumped to completion as designed. Had extra sand to start interval. Could not empty final bin-- approx 27,500 lbs Left on location. Flushed well 10 bbl over top of sleeve per customer. Blender lost tub during flush, dropped rate and swapped to bypass to complete flush. Cut all chemicals with 200 bbls left in flush. ISIP: 3875 psi FG: 0.975 psi / ft	

Thank you,

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