Andrews, David

From: Caplis, Chris [Chris.Caplis@Williams.com]
Sent: Thursday, September 30, 2010 9:52 AM
To: Andrews, David
Cc: Matt Mandarich
Subject: Bradenhead Charts from SP 14 pad 9/27/10 and 9/25/10
Attachments: Braden Heads Pressure Monitoring - SP 14 - 9-27-10 and 9-28-10.doc

Dave,

Attached you will find 5 braden head charts, one for each stage frac'd between 9/27 & 9/28/2010. These are the final fracs for these wells on this pad.

First and foremost, we had zero psi braden head pressure on all wells before, during and after every frac stage. The charts reflect strange slope variations and one gradual slope increase that appears to be a buildup of braden head pressure. Again, we had zero psi BH pressure at all times and still to this day. Halliburton explains the slope variation as a transducer issue. For these 5 frac stages they monitored the BH pressure with a 15,000 psi pressure transducer as opposed to the typical 300 psi pressure transducer – the 300 psi transducers where not available; Thus, the 20 psi of BH pressure that some of the charts show is a 0.1% variation of the capacity of the transducer. If you have any questions I can get a Halliburton engineer on the phone to help explain.

Regards,

Chris Caplis
Completions Engineer
Williams Production Co.
Ofc: 303-606-4041
Cell: 303-601-4884
chris.caplis@williams.com

From: Matthew Mandarich [mailto:Matthew.Mandarich@Halliburton.com]
Sent: Thursday, September 30, 2010 7:32 AM
To: Caplis, Chris
Subject: Bradenhead Charts from SP 14 pad 9/27/10 and 9/25/10

Chris,

Please find the attached bradenhead graphs with detailed comments. From the notes each time the pressure transducer was opened to be calibrated, or confirmed, to zero there was no pressure on the Bradenhead line.

Matt Mandarich
Account Representative
Halliburton Energy Services
Mobile: 303-704-1764
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matthew.mandarich@Halliburton.com

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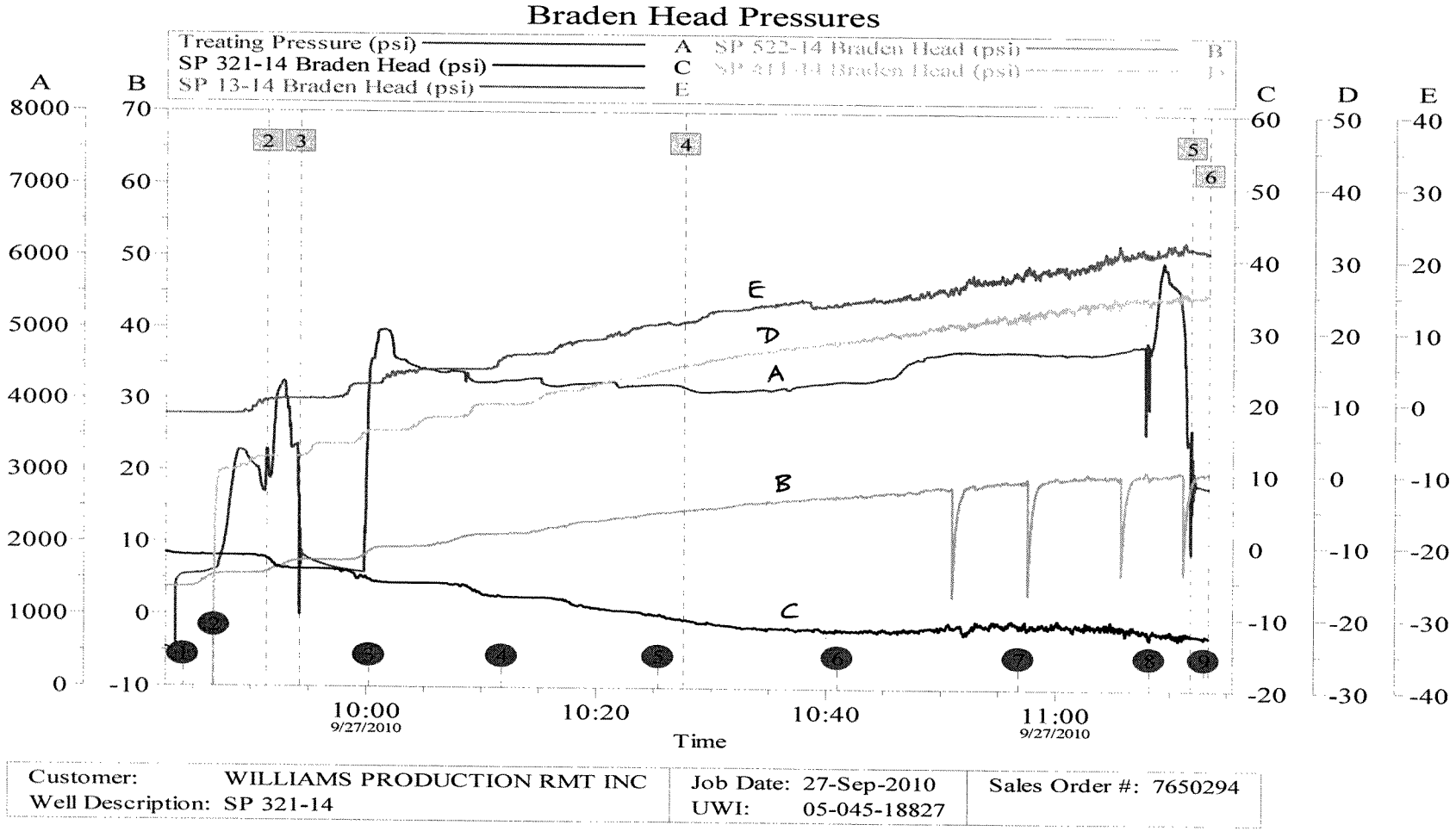
HALLIBURTON

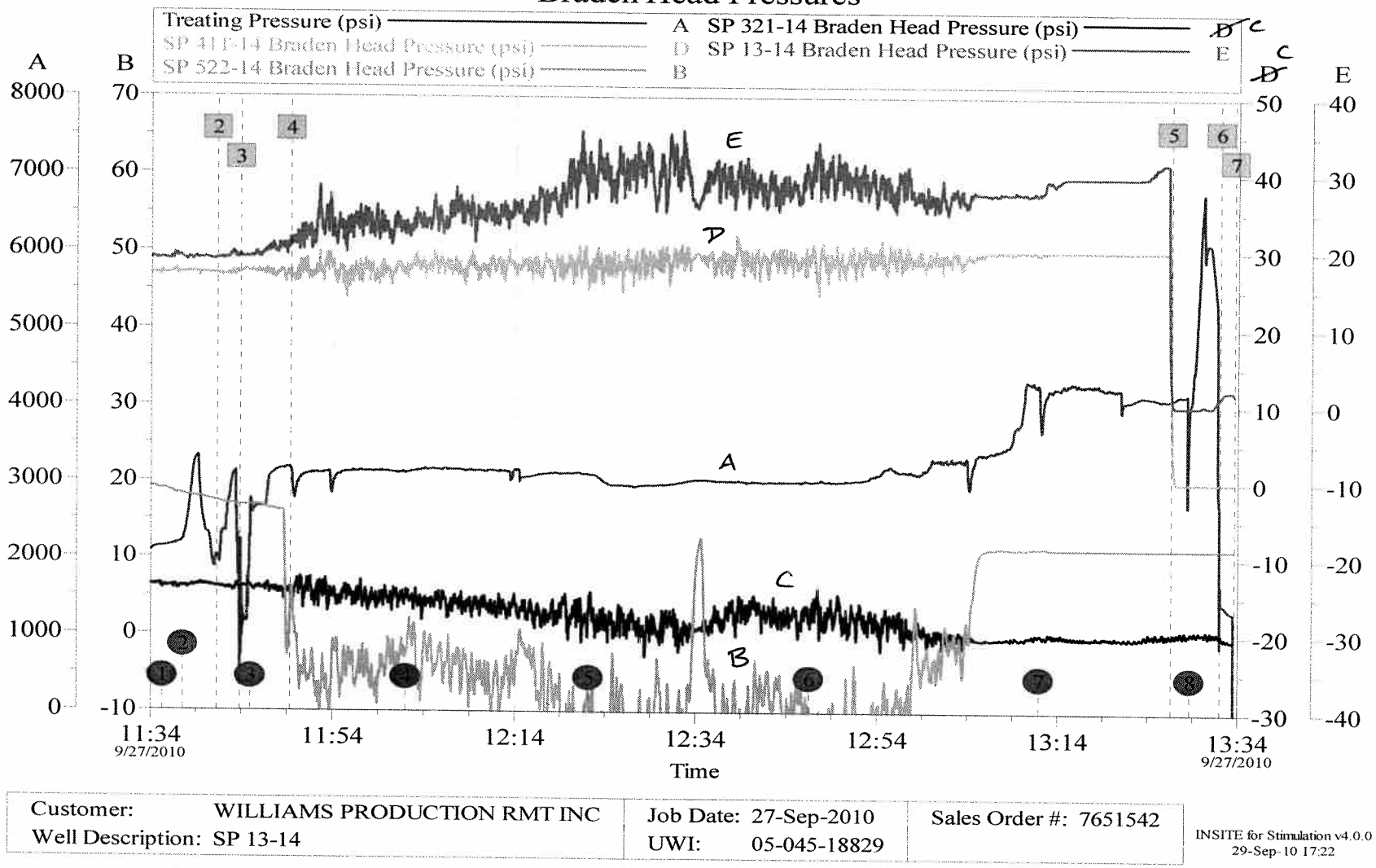
Subject: Multiple Braden Heads Pressure Monitoring on the SP 14 Pad (15,000 psi Pressure Transducers)
Jobs Pumped: SP 321-14 MV 2, SP 13-14 MV 3, SP 321-14 MV 3, SP 321-14 MV 4, and SP 321-14 MV 5
Submitted By: Lucas Mahar
Dates: 9/27/10 and 9/28/10



*Zeroed all Braden Head pressure transducers before the start of the job, except for the SP 411-14 which was zeroed at the Stage 2 flag.

HALLIBURTON

Braden Head Pressures



Customer: WILLIAMS PRODUCTION RMT INC	Job Date: 27-Sep-2010	Sales Order #: 7651542
Well Description: SP 13-14	UWI: 05-045-18829	

INSITE for Stimulation v4.0.0
29-Sep-10 17:22

*Braden Heads and pressure transducers were left alone between the first job and this one. All Braden Head pressures read the same at the beginning of this job as they did at the end of the first. At Event flag 5 we got a new zero on the pressure transducers for the SP 13-14 and SP 411-14 Braden Heads. They didn't have any pressure on them.

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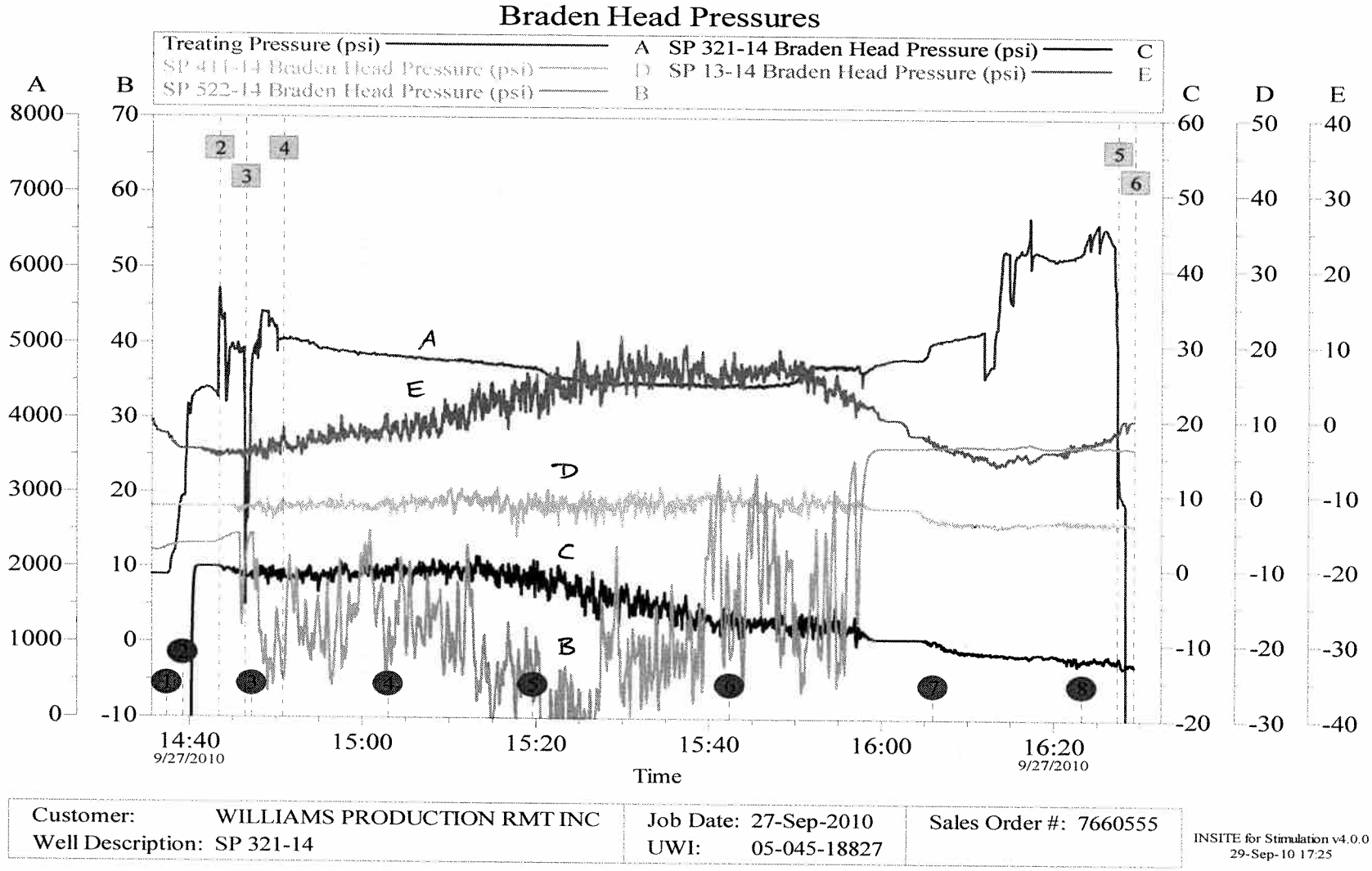
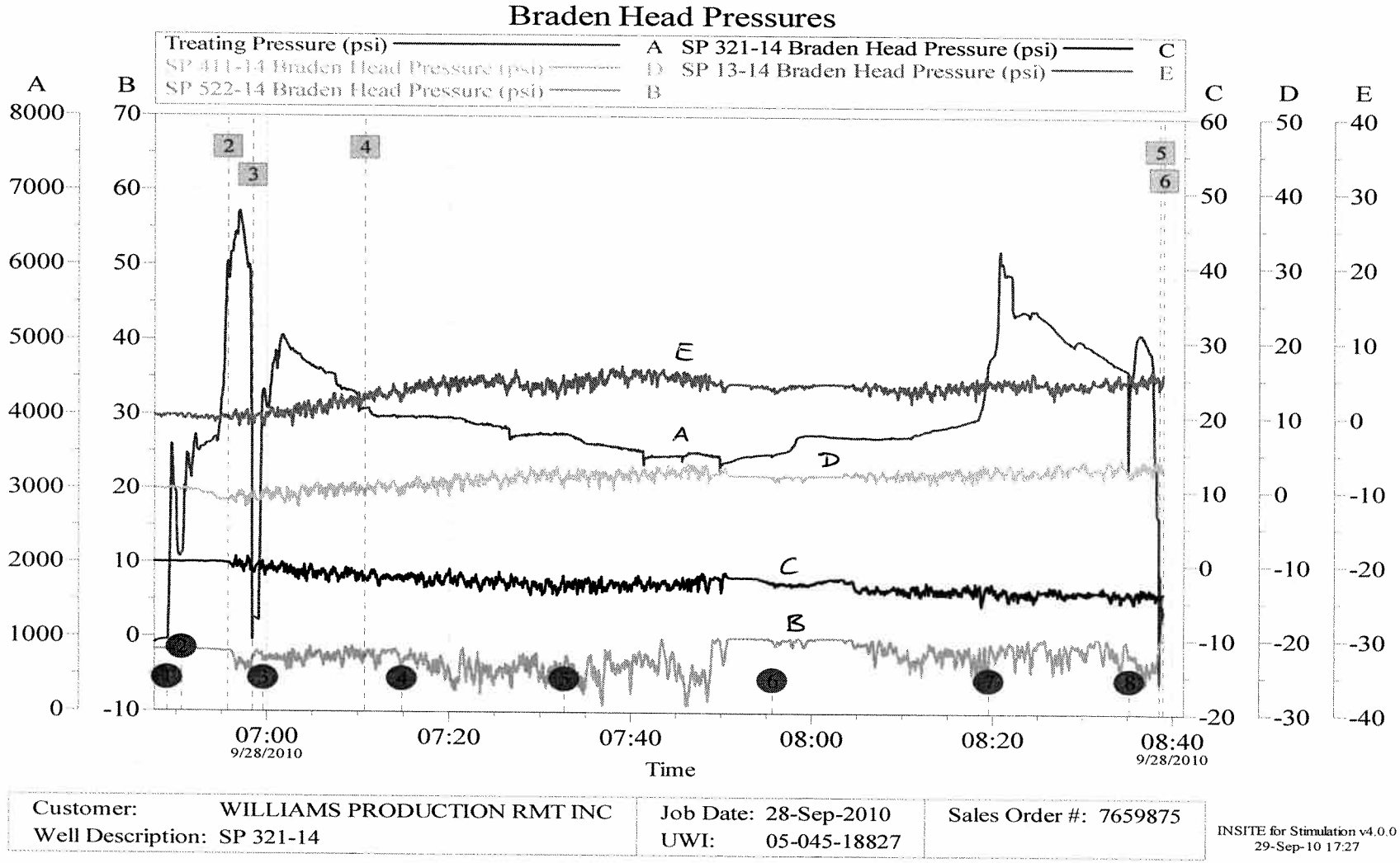


*All Braden Heads and pressure transducers were left alone between the last job and this one. Just after the Stage 2 flag the pressure transducer for the SP 321-14 Braden Head was re-zeroed. No pressure was on it.

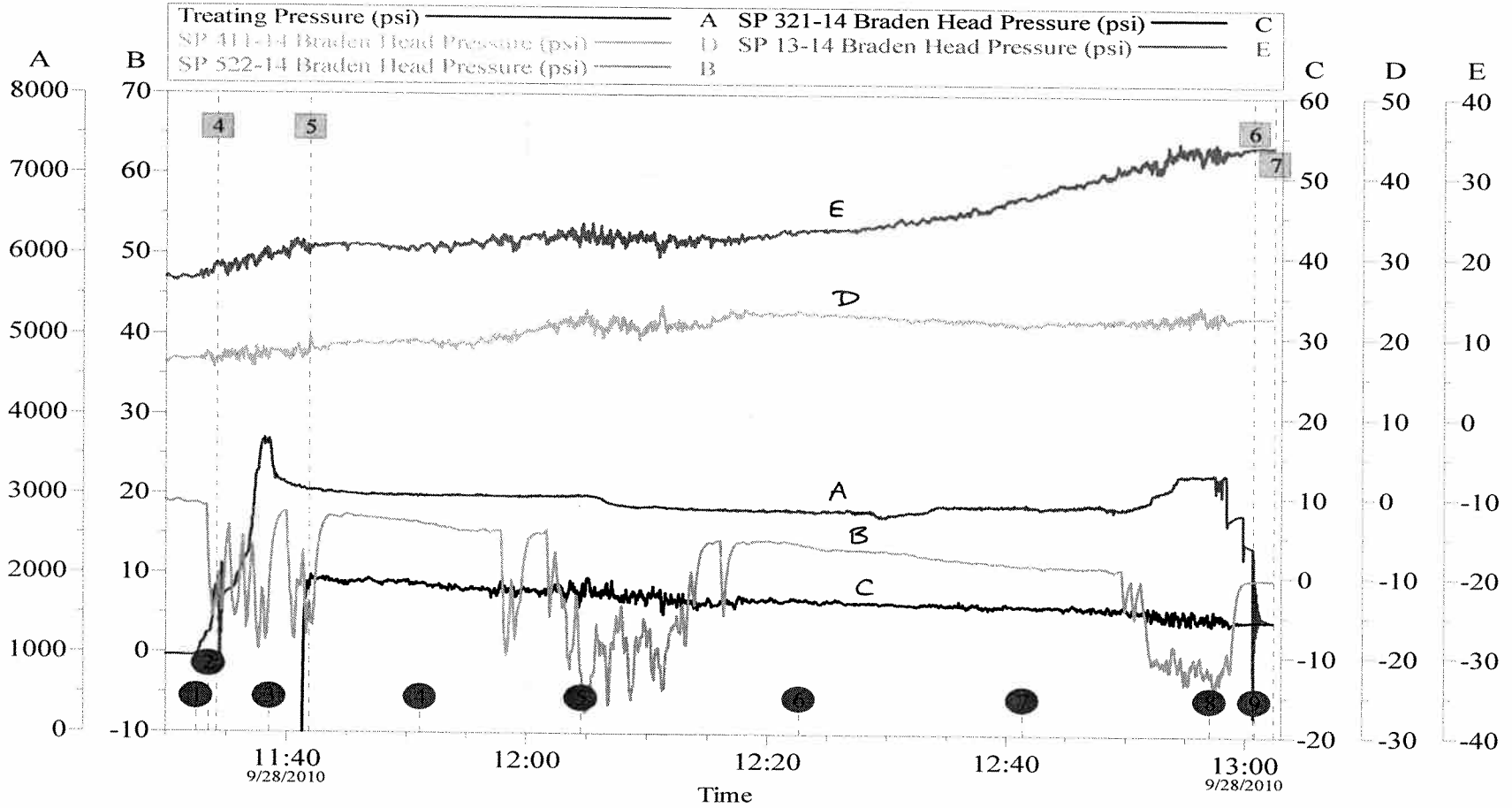
HALLIBURTON



*All pressure transducers were re-zeroed before this job. No pressure was on any of them. They were also opened at the end of this job and there still wasn't any pressure on them.

HALLIBURTON

Braden Head Pressures



Customer:	WILLIAMS PRODUCTION RMT INC	Job Date:	28-Sep-2010	Sales Order #: 7660157
Well Description:	SP 321-14	UWI:	05-045-18827	

INSITE for Stimulation v4.0.0
29-Sep-10 17:29

*At Event flag 5 we got a new zero on the SP 321-14 Braden Head pressure transducer, which had no pressure on it.