

**CHEVRON - MID-CONTINENT EBIZ**  
**760 Horizon Dr**  
**Grand Junction, CO 81506**

**SKR 598-25-AV-16**

**Interval 2**  
**Garfield County, Colorado**

**Sales Order: 900621864**

## **Post Job Report**

**For: Kieth Hejl**  
**Date: Monday, July 29, 2013**

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**HALLIBURTON**

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## 1.0 WELL INFORMATION

### 1.1 Customer Information

#### Customer

CHEVRON - MID-CONTINENT EBIZ

Sales Order

900621864

Well Name

SKR

Well Number

598-25-AV-16

Job Date

29-Jul-2013

County

Garfield

State

Colorado

UWI/API

05-045-15256

Country

United States of America

H2S Present

Unknown

Customer Representative

Kieth Hejl

Halliburton Representative

T. Nowak

**1.2 Pipe Information**

Equipment	Top MD ft	Bottom MD ft	OD in	ID in	Grade	Weight lb/ft
Surface Pipe	0.0	100.0	5.000	4.000		
Casing	0.0	4965.0	4.500	4.000	N-80	11.60

**1.3 Perforation Intervals**

Top MD ft	Bottom MD ft	Number of Shots	Perf Density spf	Perf Diameter in
4182.0	4366.0	27	0.1	0.350

## 2.0 ACTUAL STAGE SUMMARY

### 2.1 Stage Summary

Stage Number	Stage Time	Max Treat Pr psi	Max Slurry Rate bpm	Max Wellhead Rate bpm	Max Prop Conc lb/gal	Avg Treating Pressure psi	Avg Clean Rate bpm
1	29-Jul-13 10:48:53	4619	62.8	62.8	0.00	3505	38.4
2	29-Jul-13 10:51:20	4803	63.5	63.5	0.25	4681	64.2
3	29-Jul-13 11:20:39	4513	63.8	63.8	0.45	4190	61.9
4	29-Jul-13 11:35:51	4951	63.4	63.4	0.67	4729	62.3
5	29-Jul-13 11:42:38	6396	63.3	63.3	0.89	5110	60.6
6	29-Jul-13 11:47:59	4373	37.3	37.3	0.84	3822	33.3
7	29-Jul-13 11:48:47	0	0.0	0.0	0.00	0	0.0

Stage Number	Stage Time	Avg Slurry Rate bpm	Clean Volume gal	Slurry Volume gal	Prop Mass 100*lb
1	29-Jul-13 10:48:53	40.5	2182	2306	0.00
2	29-Jul-13 10:51:20	63.4	6599	6519	9.08
3	29-Jul-13 11:20:39	62.1	64933	64994	209.88
4	29-Jul-13 11:35:51	63.3	39791	40405	238.58
5	29-Jul-13 11:42:38	62.1	15805	16023	125.22
6	29-Jul-13 11:47:59	33.0	7128	6962	0.00
7	29-Jul-13 11:48:47	0.0	0	0	0.00
Total			136437	137210	582.76

### 3.0 PERFORMANCE HIGHLIGHTS

#### 3.1 Treatment Summary

Start Time	29-Jul-13 10:40:49	
End Time	29-Jul-13 11:48:47	

SKR 598-25-AV-16 Stage 2		
7/29/2013		
Engineering Notes		
Engineer on Location	Drew Mogck	
ISDP	1618	psi
Initial Pressure(Breakdown)	2173	psi
Max Pressure	6396	psi
Average Pressure	4454	psi
Max Rate	63.8	bpm
Average Rate	61.7	bpm
Proppant Design Volume	87,450	lbs
Proppant in Formation	74,000	lbs
FR-66 Used	26	gals
BE-7 Used	104	gals
SandWedge WF Used	80	lbs
SCW-4212 Used	19	lbs

Clean Volume	3249	bbls
Start Time	10:47 AM	HH:MM
End Time	11:47 AM	HH:MM
Job Notes:		
Besser mover died during .5 ppg sand. Couldn't swap to the arc mover due to the besser belt blocking the hopper. Flushed well and shut down for a couple minutes to get besser started. Got started and got back into it. Pressure came up in middle of 1 ppg stage. Dropped rate but pressure kept coming up. Cut screws early but pressure kicked pumps out right after. Got back in to it at lower rate and flushed well successfully. Pumped 85% of designed proppant.		



### 3.2 Job Event Log

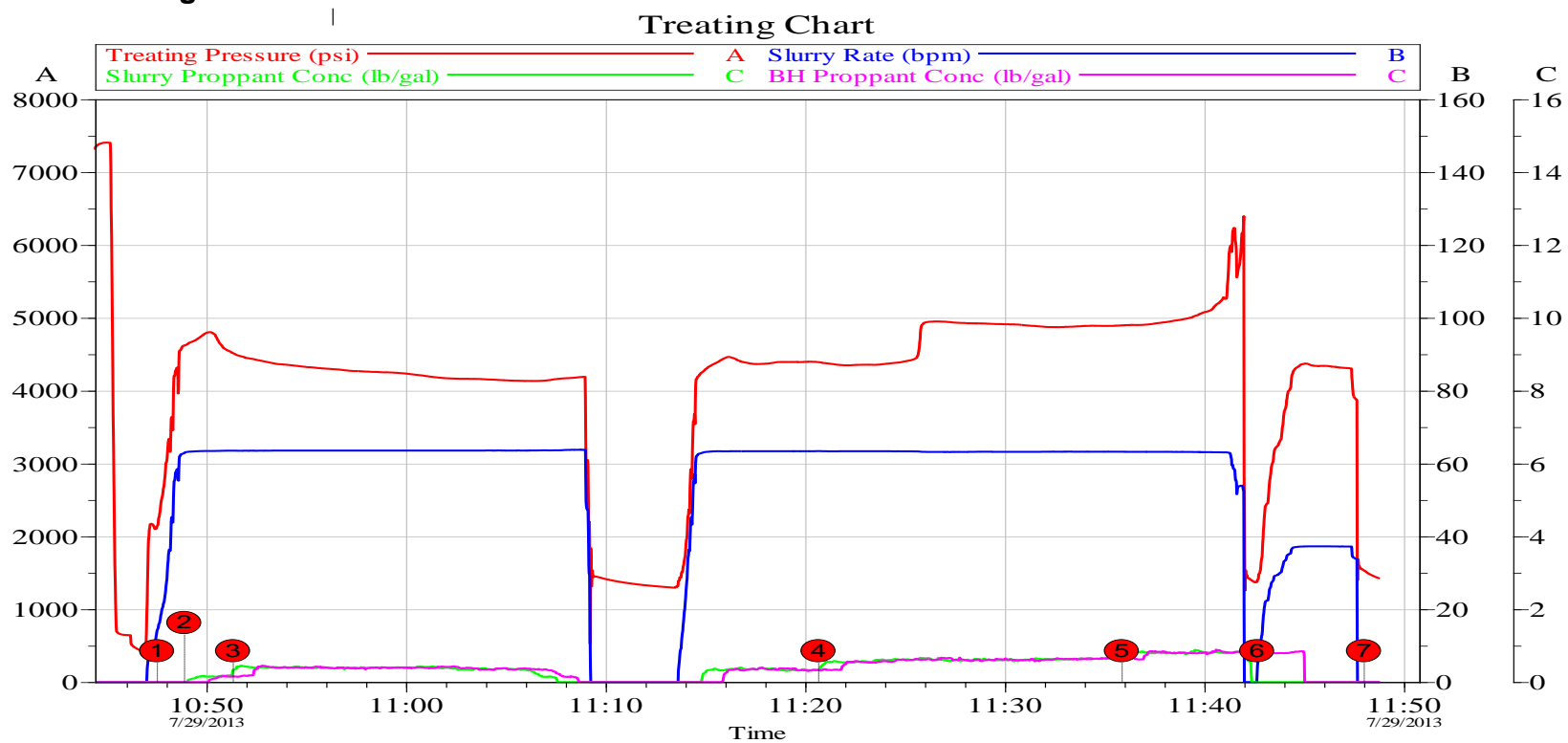
Time	Comment	Treating Pressure psi	Braden Pressure psi	Slurry Rate bpm	Treatment Clean Volume gal	Treatment Slurry Volume gal
29-Jul-13 10:40:49	Starting Job					
10:47:14	Break Formation=2173 psi @10.72 bpm	2173	-25	10.7	168	140
10:47:32	Pad	2146	-25	14.4	9	10
10:48:54	Proppant Laden Fluid	4619	-26	62.8	2182	2306
10:51:21	Proppant Laden Fluid	4513	-27	63.5	8781	8826
11:06:14	Besser mover died. Cant swap to other mover since belt from besser is blocking the hopper. Going to flush well	4134	-29	63.6	48340	48560
11:07:43	Flushing well	4165	-29	63.6	52337	52535
11:13:19	Mover fixed, getting back into it	1298	-31	0.0	56436	56366
11:20:40	Proppant Laden Fluid	4392	-33	63.4	73714	73820

Time	Comment	Treating Pressure psi	Braden Pressure psi	Slurry Rate bpm	Treatment Clean Volume gal	Treatment Slurry Volume gal
11:35:52	Proppant Laden Fluid	4897	-37	63.2	113505	114225
11:42:39	Flush	1403	-38	2.0	129310	130248
11:48:00	Shut-In	1531	-39	0.0	136437	137210
11:48:50	Ending Job	1422	-39	0.0	136437	137210



## 4.0 ATTACHMENTS

### 4.1 Treating Chart

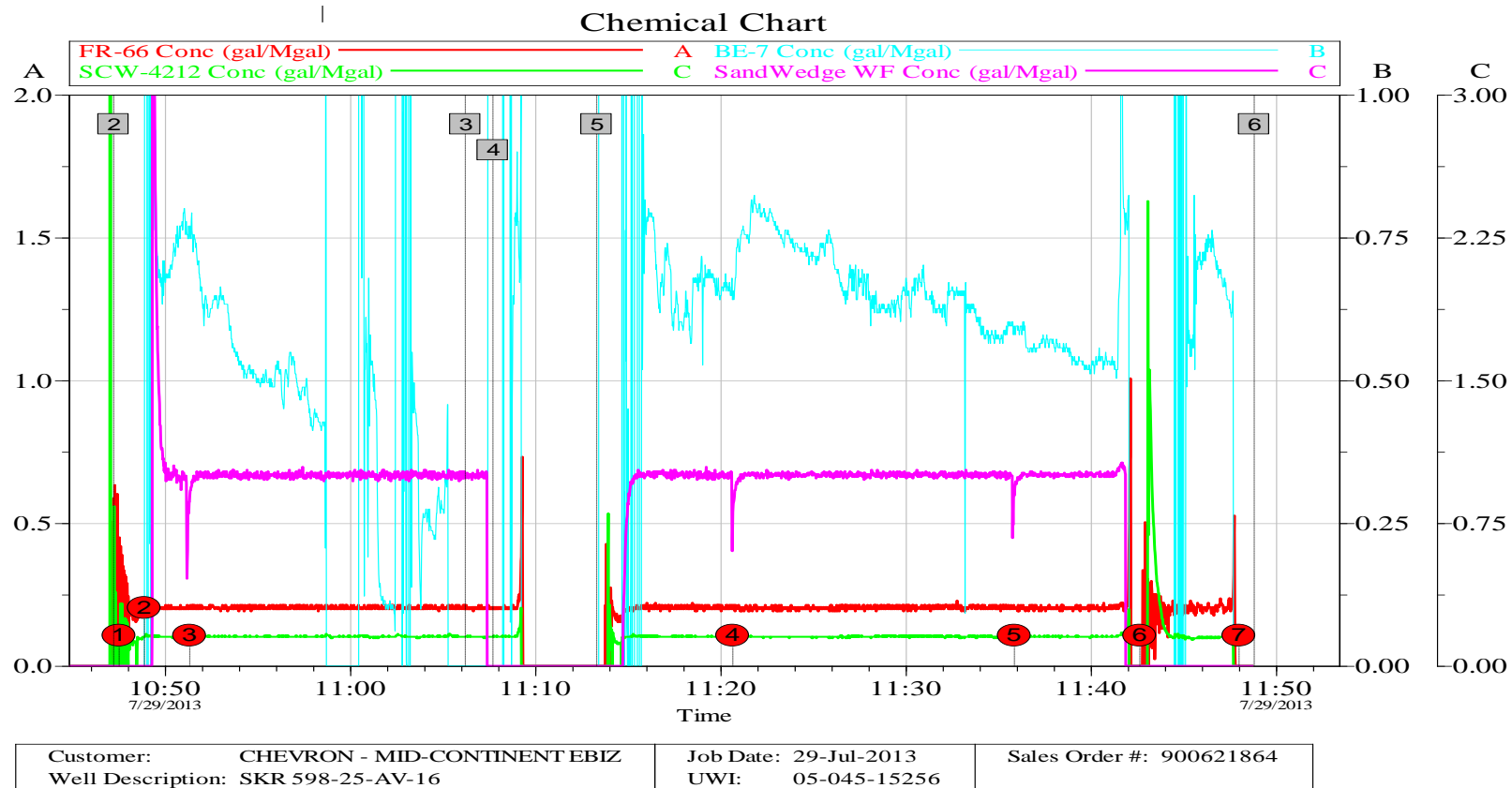


Customer: CHEVRON - MID-CONTINENT EBIZ  
Well Description: SKR 598-25-AV-16

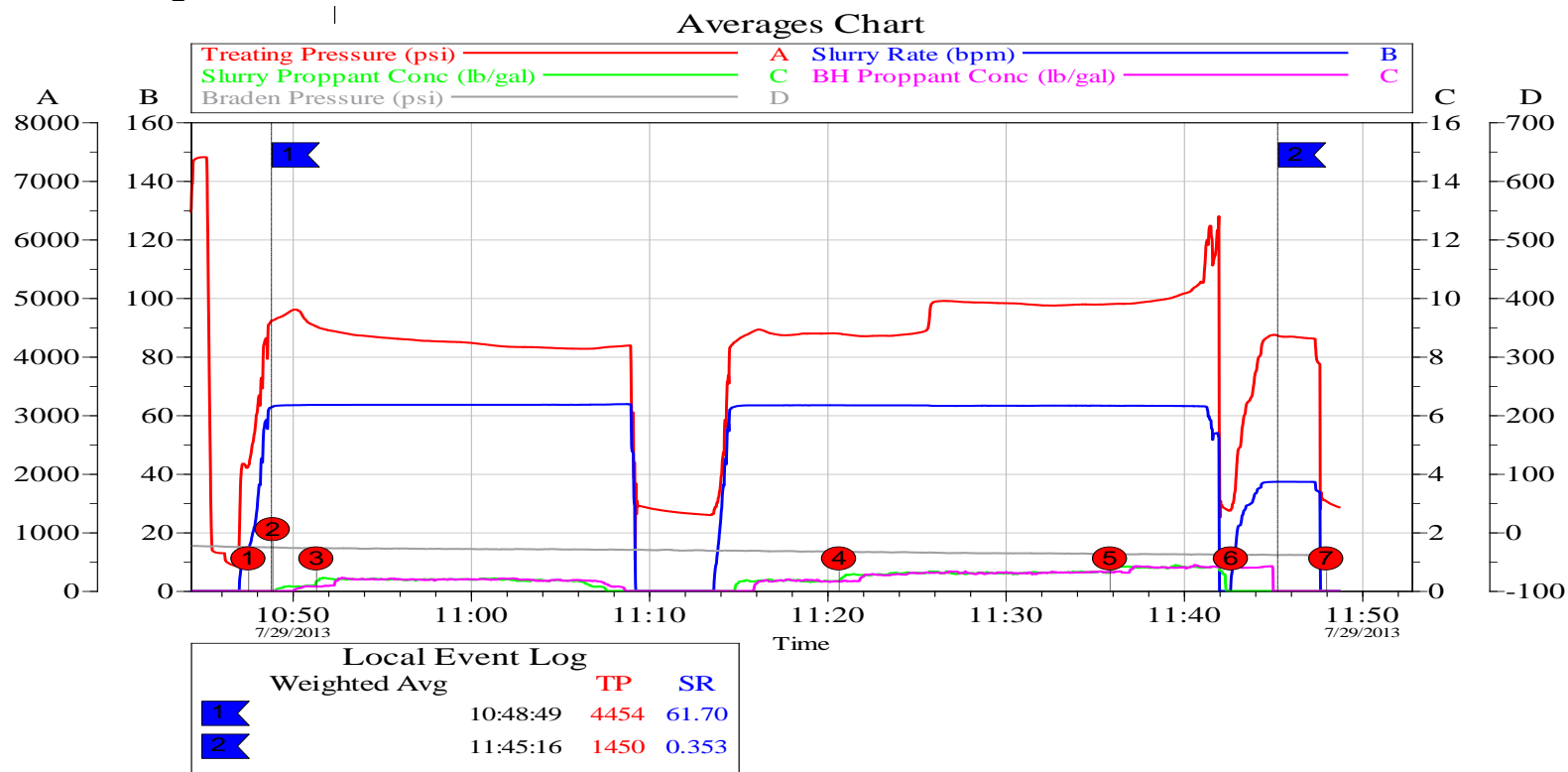
Job Date: 29-Jul-2013  
UWI: 05-045-15256

Sales Order #: 900621864

## 4.2 Chemical Chart

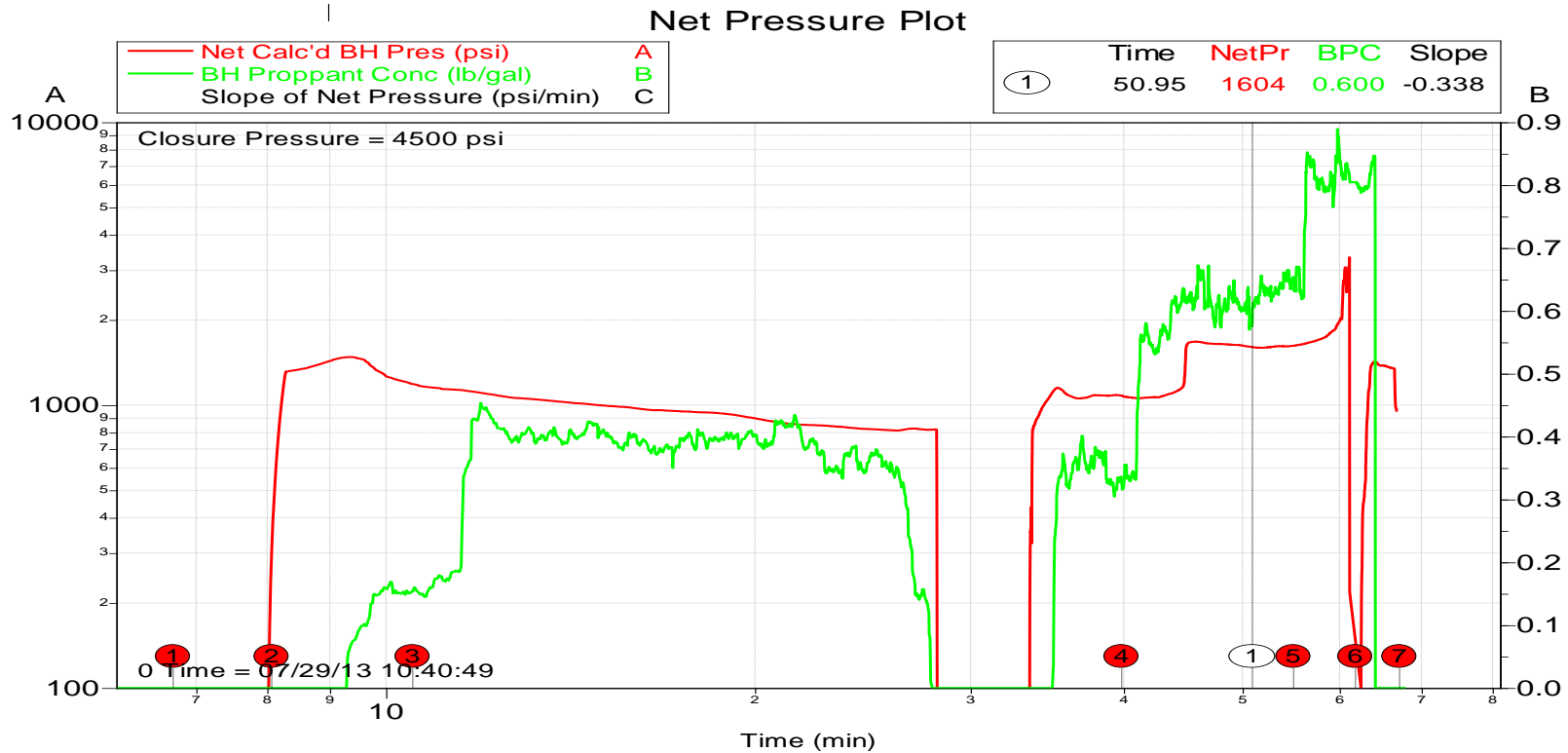


### 4.3 Averages Chart



Customer:	CHEVRON - MID-CONTINENT EBIZ	Job Date:	29-Jul-2013	Sales Order #:	900621864
Well Description:	SKR 598-25-AV-16	UWI:	05-045-15256		

## 4.4 Net Pressure Plot



Customer: CHEVRON - MID-CONTINENT EBIZ  
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