

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

SKR 598-25-BV-16

Stage 4  
Garfield County, Colorado

Sales Order: 900715107

## **Post Job Report**

For: Keith Hejl  
Date: Thursday, September 05, 2013

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**HALLIBURTON**

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**1.0 WELL INFORMATION****1.1 Customer Information**

|                                   |                          |
|-----------------------------------|--------------------------|
| <b>Customer</b>                   | CHEVRON - MID-CONTINENT  |
| <b>Sales Order</b>                | 900715107                |
| <b>Well Name</b>                  | SKR                      |
| <b>Interval</b>                   | 4                        |
| <b>Well Number</b>                | 598-25-BV-07             |
| <b>Job Date</b>                   | 05-Sep-2013              |
| <b>County</b>                     | Garfield                 |
| <b>State</b>                      | Colorado                 |
| <b>UWI/API</b>                    | 05-045-15422-0000        |
| <b>Lease Name</b>                 | SKR                      |
| <b>Country</b>                    | United States of America |
| <b>H2S Present</b>                | Unknown                  |
| <b>CO2 Present</b>                | Unknown                  |
| <b>Customer Representative</b>    | Matthew Mandarich        |
| <b>Customer Telephone Number</b>  | 303-675-4449             |
| <b>Halliburton Representative</b> | SWANSON                  |

## 1.2 Pipe Information

| Equipment    | Top MD<br>ft | Bottom<br>MD<br>ft | OD<br>in | ID<br>in | Grade | Weight<br>lb/ft |
|--------------|--------------|--------------------|----------|----------|-------|-----------------|
| Surface Pipe | 0.0          | 50.0               | 5.000    | 4.000    |       |                 |
| Casing       | 0.0          | 4514.0             | 4.500    | 4.000    | N-80  | 11.60           |

## 1.3 Perforation Intervals

| Top MD<br>ft | Bottom MD<br>ft | Number of<br>Shots | Perf Density<br>spf | Perf Phasing<br>° | Perf<br>Orientation<br>° | Perf Diameter<br>in | Perf<br>Formation         |
|--------------|-----------------|--------------------|---------------------|-------------------|--------------------------|---------------------|---------------------------|
| 4247.0       | 4464.0          | 27                 | 0.1                 | 2                 | 0                        | 0.340               | Perforation<br>Interval 1 |

**2.0 ACTUAL STAGE SUMMARY**

**2.1 Stage Summary**

| Stage Number | Stage Time            | Start Time | End Time              | Time min | Pump Time min | Max Treat Pr psi | Max Slurry Rate bpm |
|--------------|-----------------------|------------|-----------------------|----------|---------------|------------------|---------------------|
| 1            | 05-Sep-13<br>11:26:49 | 11:25:25   | 05-Sep-13<br>11:26:49 | 1.43     | 1.42          | 6159             | 50.4                |
| 2            | 05-Sep-13<br>11:30:52 | 11:26:50   | 05-Sep-13<br>11:30:52 | 4.05     | 4.05          | 6198             | 64.2                |
| 3            | 05-Sep-13<br>12:04:55 | 11:30:53   | 05-Sep-13<br>12:04:55 | 34.04    | 34.03         | 5161             | 64.5                |
| 4            | 05-Sep-13<br>12:27:54 | 12:04:56   | 05-Sep-13<br>12:27:54 | 22.99    | 22.98         | 4802             | 64.4                |
| 5            | 05-Sep-13<br>12:46:12 | 12:27:55   | 05-Sep-13<br>12:46:12 | 18.31    | 18.30         | 6415             | 64.3                |
| 6            | 05-Sep-13<br>12:49:00 | 12:46:13   | 05-Sep-13<br>12:49:00 | 2.80     | 2.78          | 5897             | 58.6                |
| 7            | 05-Sep-13<br>12:49:38 | 12:49:01   | 05-Sep-13<br>12:49:38 | 0.63     | 0.02          | 2020             | 0.3                 |

| Stage Number | Stage Time            | Max Wellhead Rate bpm | Max Prop Conc lb/gal | Max Slurry Prop Conc lb/gal | Avg Treating Pressure psi | Avg Clean Rate bpm | Avg Slurry Rate bpm |
|--------------|-----------------------|-----------------------|----------------------|-----------------------------|---------------------------|--------------------|---------------------|
| 1            | 05-Sep-13<br>11:26:49 | 50.4                  | 0.00                 | 0.00                        | 4281                      | 34.2               | 33.4                |
| 2            | 05-Sep-13<br>11:30:52 | 64.2                  | 0.37                 | 0.37                        | 5489                      | 58.3               | 59.5                |
| 3            | 05-Sep-13<br>12:04:55 | 64.5                  | 0.59                 | 0.59                        | 4557                      | 62.3               | 64.4                |
| 4            | 05-Sep-13<br>12:27:54 | 64.4                  | 0.98                 | 0.98                        | 4702                      | 61.5               | 64.3                |

| Stage Number | Stage Time            | Max Wellhead Rate bpm | Max Prop Conc lb/gal | Max Slurry Prop Conc lb/gal | Avg Treating Pressure psi | Avg Clean Rate bpm | Avg Slurry Rate bpm |
|--------------|-----------------------|-----------------------|----------------------|-----------------------------|---------------------------|--------------------|---------------------|
| 5            | 05-Sep-13<br>12:46:12 | 64.3                  | 1.58                 | 1.58                        | 5538                      | 57.8               | 61.5                |
| 6            | 05-Sep-13<br>12:49:00 | 58.6                  | 0.15                 | 0.00                        | 5100                      | 55.0               | 56.5                |
| 7            | 05-Sep-13<br>12:49:38 | 0.3                   | 0.00                 | 0.00                        | 2020                      | 0.0                | 0.3                 |

| Stage Number | Stage Time            | Avg Wellhead Rate bpm | Avg Slurry Prop Conc lb/gal | Avg Hydraulic Horsepower hp | Clean Volume gal | Slurry Volume gal | Wellhead Volume gal |
|--------------|-----------------------|-----------------------|-----------------------------|-----------------------------|------------------|-------------------|---------------------|
| 1            | 05-Sep-13<br>11:26:49 | 33.4                  | 0.00                        | 3505                        | 2040             | 1991              | 1991                |
| 2            | 05-Sep-13<br>11:30:52 | 59.5                  | 0.22                        | 8001                        | 9920             | 10120             | 10120               |
| 3            | 05-Sep-13<br>12:04:55 | 64.4                  | 0.46                        | 7196                        | 89112            | 92139             | 92140               |
| 4            | 05-Sep-13<br>12:27:54 | 64.3                  | 0.69                        | 7412                        | 59399            | 62111             | 62111               |
| 5            | 05-Sep-13<br>12:46:12 | 61.5                  | 1.12                        | 8341                        | 44425            | 47261             | 47261               |
| 6            | 05-Sep-13<br>12:49:00 | 56.5                  | 0.00                        | 7061                        | 6427             | 6605              | 6605                |
| 7            | 05-Sep-13<br>12:49:38 | 0.3                   | 0.00                        | 14                          | 0                | 0                 | 0                   |
| Total        |                       |                       |                             |                             | 211323           | 220228            | 220228              |

| Stage Number | Stage Time         | Prop Mass 100*lb |
|--------------|--------------------|------------------|
| 1            | 05-Sep-13 11:26:49 | 0.00             |

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| <b>Stage Number</b> | <b>Stage Time</b>  | <b>Prop Mass<br/>100*lb</b> |
|---------------------|--------------------|-----------------------------|
| 2                   | 05-Sep-13 11:30:52 | 22.52                       |
| 3                   | 05-Sep-13 12:04:55 | 416.55                      |
| 4                   | 05-Sep-13 12:27:54 | 415.65                      |
| 5                   | 05-Sep-13 12:46:12 | 501.49                      |
| 6                   | 05-Sep-13 12:49:00 | 0.00                        |
| 7                   | 05-Sep-13 12:49:38 | 0.00                        |
| Total               |                    | 1356.21                     |

**3.0 PERFORMANCE HIGHLIGHTS**

**3.1 Job Summary**

|            |                    |  |
|------------|--------------------|--|
| Start Time | 05-Sep-13 11:15:54 |  |
| End Time   | 05-Sep-13 12:49:38 |  |

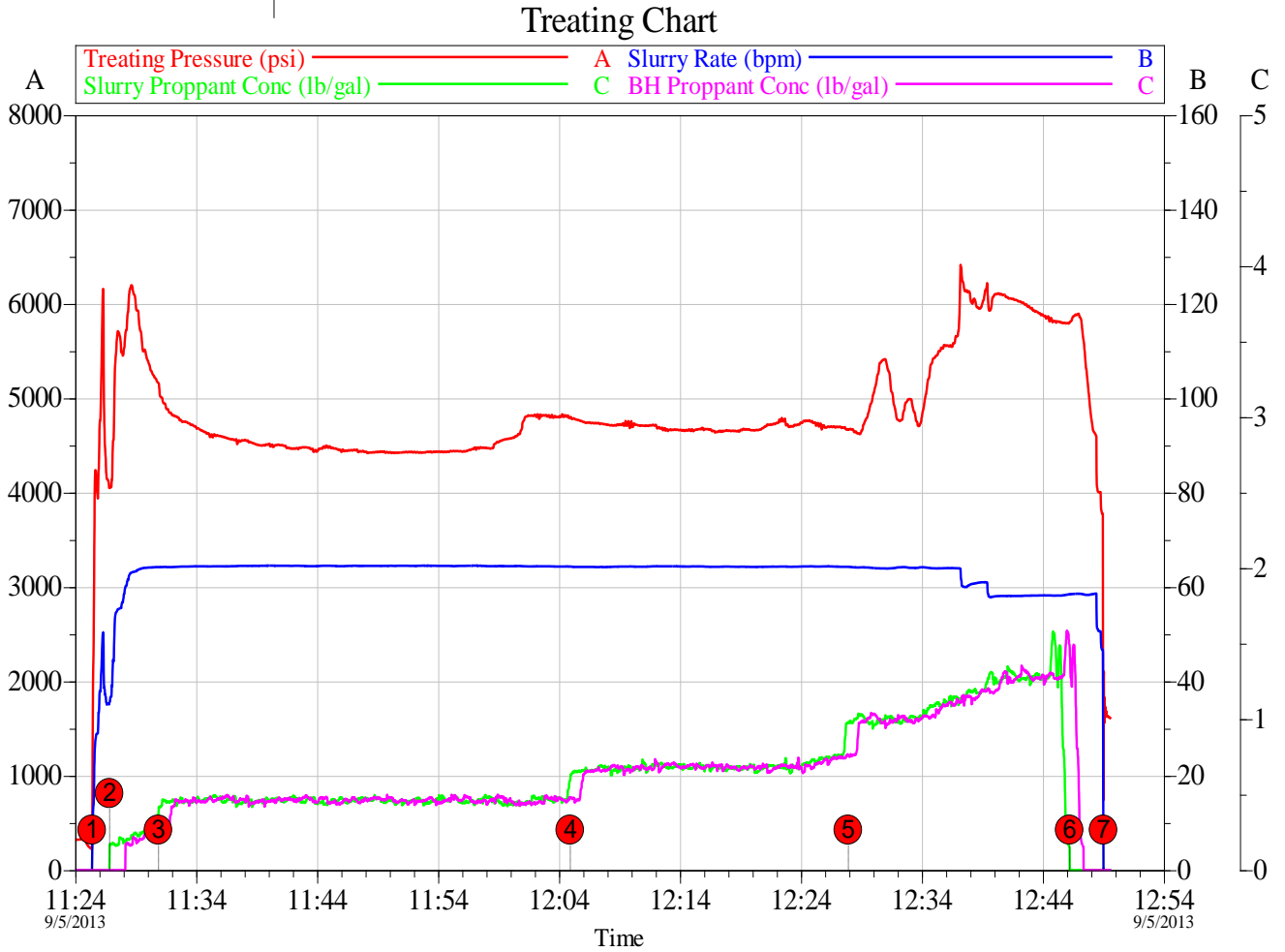
|                                 |              |       |
|---------------------------------|--------------|-------|
| <b>Chevron SKR 598-25-BV-16</b> |              |       |
| <b>9/5/2013</b>                 |              |       |
| <b>Engineering Notes</b>        |              |       |
| Engineer on Location            | Ben Williams |       |
| ISDP                            | 1884         | psi   |
| Initial Pressure(Breakdown)     | 4168         | psi   |
| Max Pressure                    | 6415         | psi   |
| Average Pressure                | 4886         | psi   |
| Max Rate                        | 64.55        | bpm   |
| Average Rate                    | 64.3         | bpm   |
| Proppant Design Volume          | 131,175      | lbs   |
| Proppant in Formation           | 132,220      | lbs   |
| FR-66 Used                      | 41           | gals  |
| BE-7 Used                       | 166          | gals  |
| SandWedge WF                    | 133          | gals  |
| SCW-4212 Used                   | 23           | gals  |
| Clean Volume                    | 5032         | bbls  |
| Start Time                      | 11:25 AM     | HH:MM |
| End Time                        | 12:49 PM     | HH:MM |
| <b>Job Notes:</b>               |              |       |
| Job pumped to completion        |              |       |

**3.2 Job Event Log**

| Stage Number | Event Number | Time                  | Description     | Comment              | Treating Pressure psi | Slurry Rate bpm | Braden Pressure psi | Job Slurry Vol gal |
|--------------|--------------|-----------------------|-----------------|----------------------|-----------------------|-----------------|---------------------|--------------------|
|              | 1            | 05-Sep-13<br>11:15:54 | Start Job       | Starting Job         |                       |                 |                     |                    |
| 1            |              | 11:25:24              | Stage 1         | Pad                  | 413                   | 3.7             | 8                   | 3                  |
|              |              | 11:25:25              | Start Averaging | Start Avg Trt 1      | 913                   | 7.1             | 8                   | 8                  |
|              | 2            | 11:25:44              | Break Formation | Break Formation      | 4153                  | 28.8            | 9                   | 286                |
| 2            |              | 11:26:50              | Stage 2         | Proppant Laden Fluid | 4052                  | 35.5            | 9                   | 1991               |
| 3            |              | 11:30:53              | Stage 3         | Proppant Laden Fluid | 5161                  | 64.2            | 9                   | 12111              |
| 4            |              | 12:04:56              | Stage 4         | Proppant Laden Fluid | 4800                  | 64.3            | 11                  | 104250             |
| 5            |              | 12:27:55              | Stage 5         | Proppant Laden Fluid | 4668                  | 64.3            | 11                  | 166361             |
| 6            |              | 12:46:13              | Stage 6         | Flush                | 5808                  | 58.5            | 12                  | 213622             |
| 7            |              | 12:49:01              | Stage 7         | Shut-In              | 2020                  | 0.1             | 12                  | 220227             |
|              |              | 12:49:38              | End Averaging   | End Avg Trt 1        | 1605                  | 0.0             | 12                  | 220228             |
|              | 3            | 12:49:42              | End Job         | Ending Job           | 1605                  | 0.0             | 12                  | 220228             |

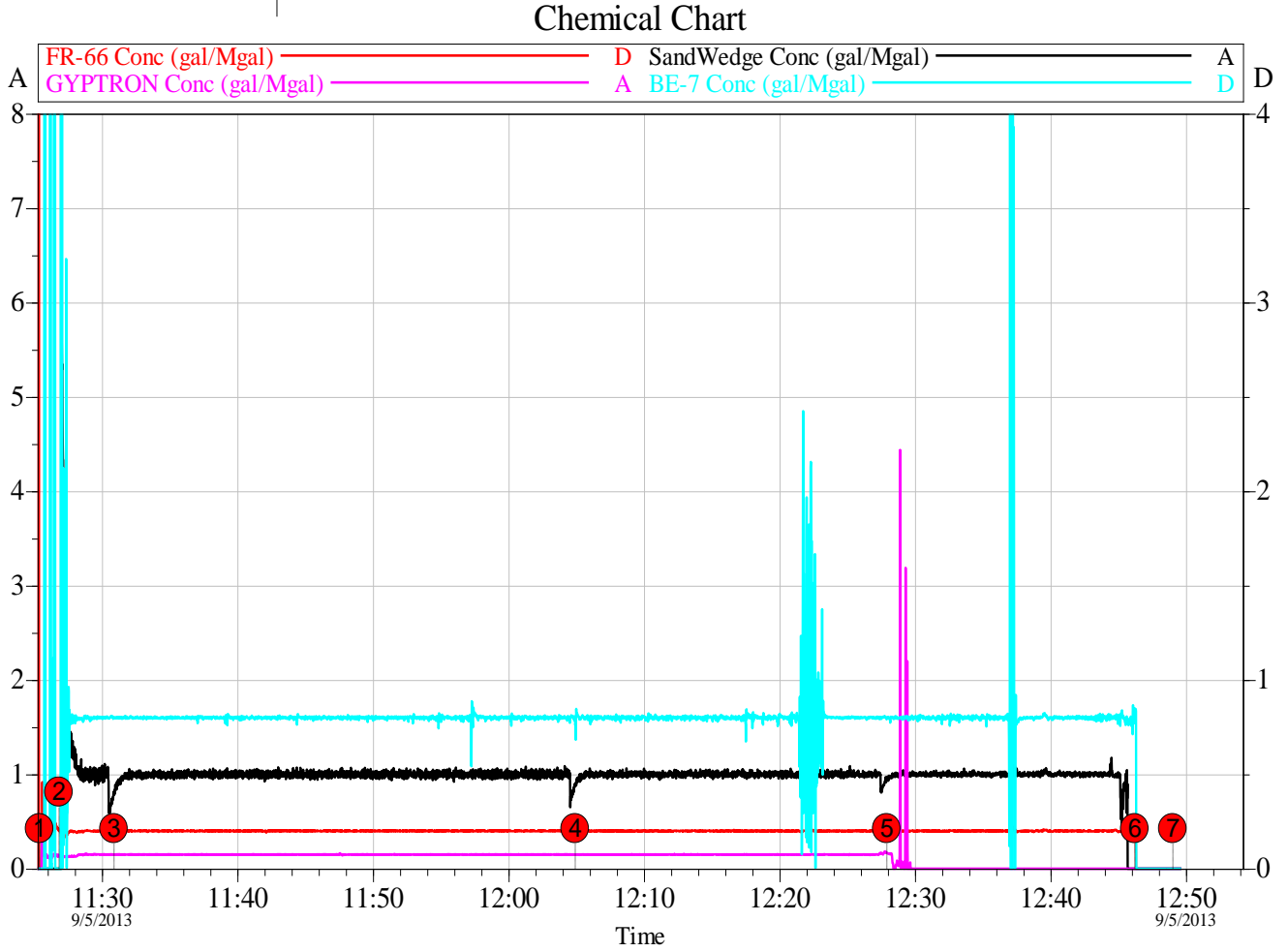
**4.0 ATTACHMENTS**

**4.1 Treating Chart**



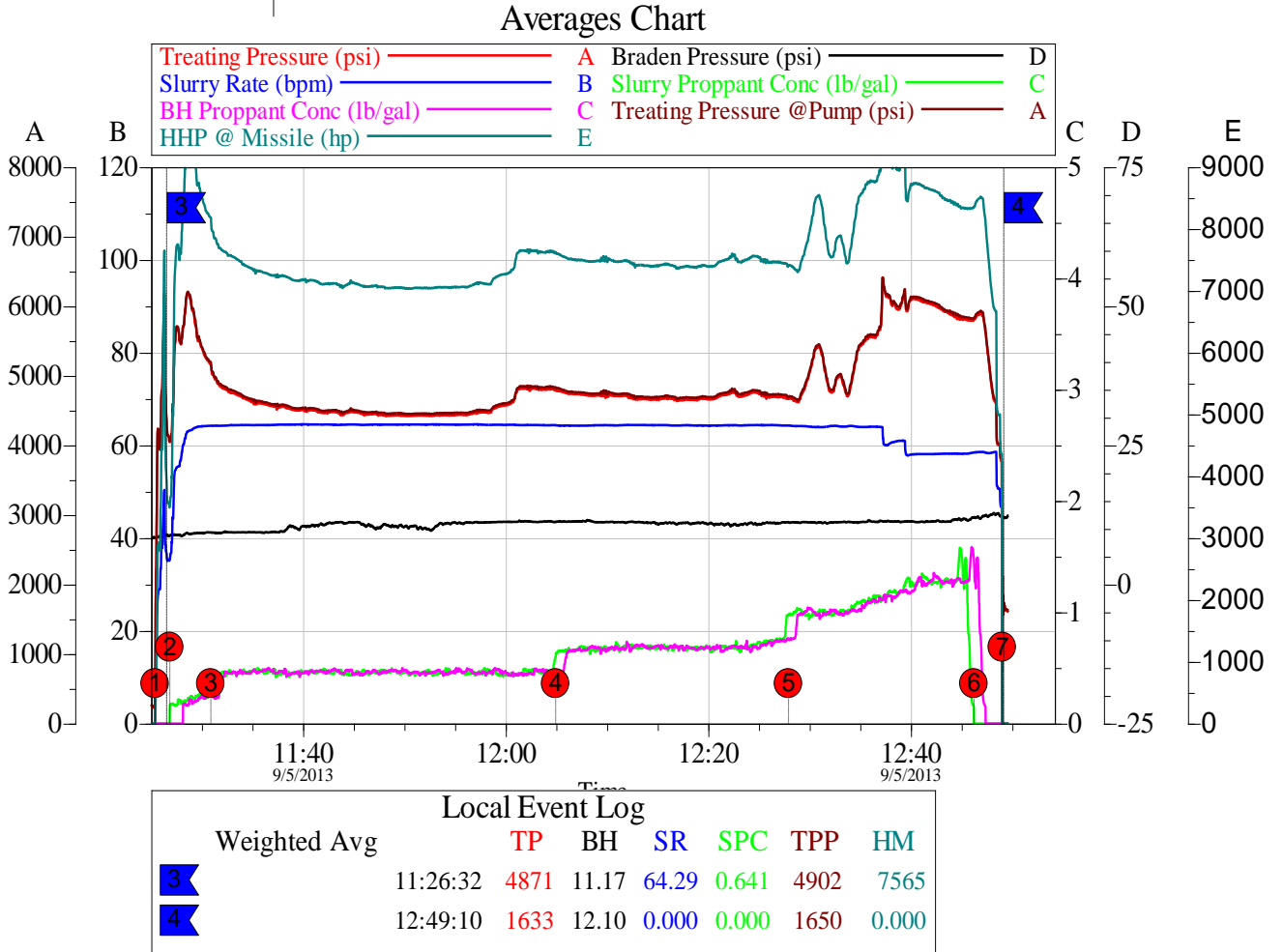
|  |                        |                          |
|--|------------------------|--------------------------|
| Customer: CHEVRON - MID-CONTINENT EBIZ | Job Date: 05-Sep-2013  | Sales Order #: 900715107 |
| Well Description: SKR 598-25-BV-07     | UWI: 05-045-15422-0000 |                          |

4.2 Chemical Chart



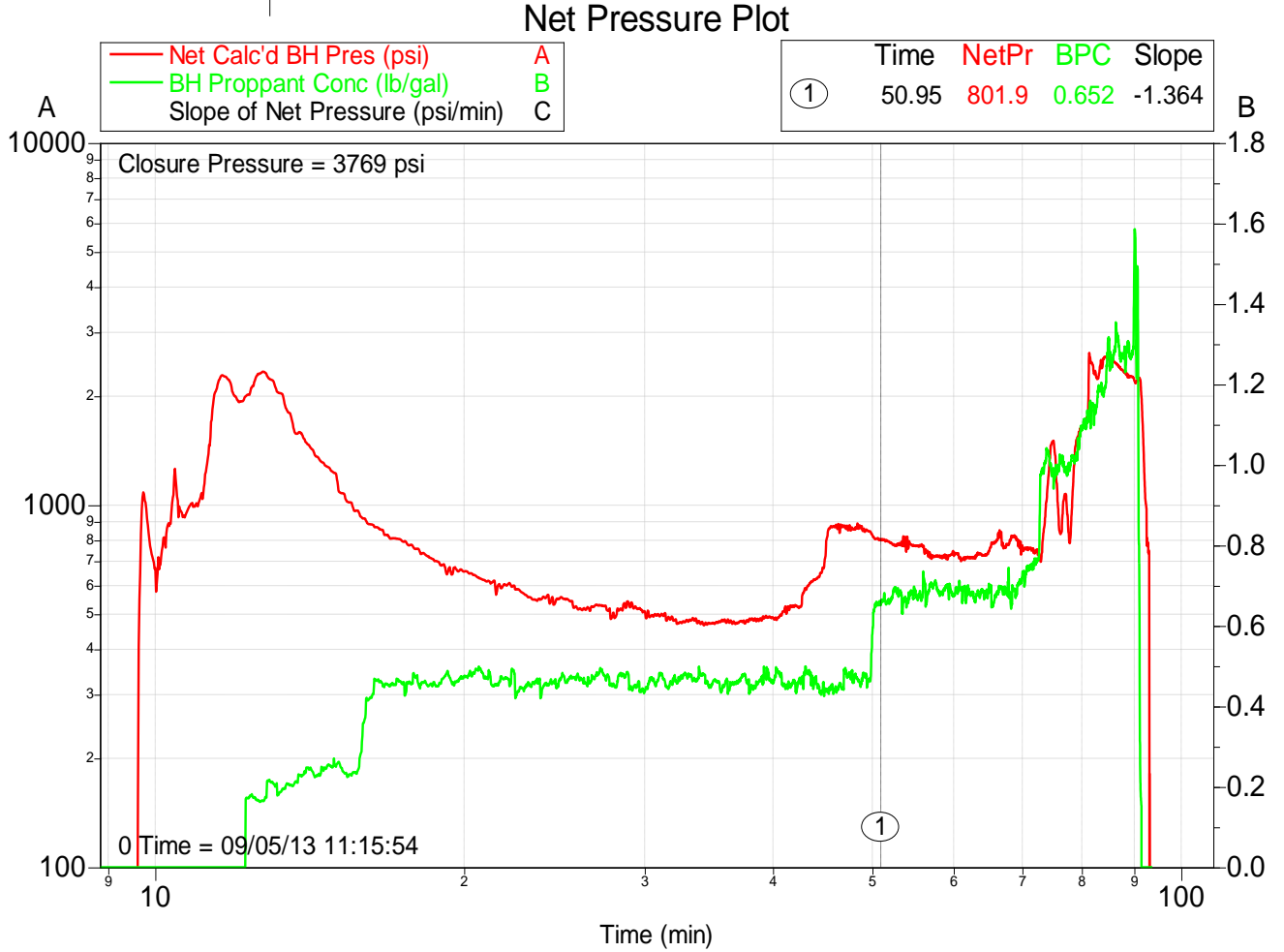
|                                       |                        |                          |
|---------------------------------------|------------------------|--------------------------|
| Customer: CHEVRON - MID-CONTINENTEBIZ | Job Date: 05-Sep-2013  | Sales Order #: 900715107 |
| Well Description: SKR 598-25-BV-07    | UWI: 05-045-15422-0000 |                          |

### 4.3 Averages Chart



|                                       |                        |                          |
|---------------------------------------|------------------------|--------------------------|
| Customer: CHEVRON - MID-CONTINENTEBIZ | Job Date: 05-Sep-2013  | Sales Order #: 900715107 |
| Well Description: SKR 598-25-BV-07    | UWI: 05-045-15422-0000 |                          |

4.4 Net Pressure Plot



|  |                        |                          |
|--|------------------------|--------------------------|
| Customer: CHEVRON - MID-CONTINENT EBIZ | Job Date: 05-Sep-2013  | Sales Order #: 900715107 |
| Well Description: SKR 598-25-BV-07     | UWI: 05-045-15422-0000 |                          |