

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

**SKR 598-25-BV-08**

**Interval 1**  
**Garfield County, Colorado**

**Sales Order: 900659002**

## **Post Job Report**

**For: Kieth Hejl**  
**Date: Sunday, August 11, 2013**

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**HALLIBURTON**

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

|                                   |                              |
|-----------------------------------|------------------------------|
| <b>Customer</b>                   | CHEVRON - MID-CONTINENT EBIZ |
| <b>Sales Order</b>                | 900659002                    |
| <b>Well Name</b>                  | SKR                          |
| <b>Rig Type</b>                   | None                         |
| <b>Interval</b>                   | 1                            |
| <b>Well Number</b>                | 598-25-BV-08                 |
| <b>Job Date</b>                   | 11-Aug-2013                  |
| <b>County</b>                     | Garfield                     |
| <b>State</b>                      | Colorado                     |
| <b>UWI/API</b>                    | 0504515402                   |
| <b>Country</b>                    | United States of America     |
| <b>H2S Present</b>                | Unknown                      |
| <b>CO2 Present</b>                | Unknown                      |
| <b>Customer Representative</b>    | Kieth Hejl                   |
| <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 | Weight<br>lb/ft |
|--------------|--------------|--------------------|----------|----------|-----------------|
| Surface Pipe | 0.0          | 50.0               | 5.000    | 4.000    |                 |
| Casing       | 0.0          | 5289.0             | 4.500    | 4.000    | 11.60           |

## 1.3 Perforation Intervals

| Top MD<br>ft | Bottom MD<br>ft | Number of Shots | Perf Density<br>spf | Perf Diameter<br>in |
|--------------|-----------------|-----------------|---------------------|---------------------|
| 4152.0       | 4314.0          | 27              | 0.2                 | 0.340               |

## 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            | 11-Aug-13<br>10:25:20 | 10:24:09   | 11-Aug-13<br>10:25:20 | 1.22     | 1.12          | 4754             | 37.5                |
| 2            | 11-Aug-13<br>10:28:45 | 10:25:21   | 11-Aug-13<br>10:28:45 | 3.42     | 3.42          | 5324             | 62.4                |
| 3            | 11-Aug-13<br>10:56:53 | 10:28:46   | 11-Aug-13<br>10:56:53 | 28.13    | 28.13         | 4756             | 63.2                |
| 4            | 11-Aug-13<br>11:15:28 | 10:56:54   | 11-Aug-13<br>11:15:28 | 18.58    | 18.58         | 4008             | 64.5                |
| 5            | 11-Aug-13<br>11:27:46 | 11:15:29   | 11-Aug-13<br>11:27:46 | 12.30    | 12.30         | 3911             | 64.4                |
| 6            | 11-Aug-13<br>11:31:07 | 11:27:47   | 11-Aug-13<br>11:31:07 | 3.35     | 3.17          | 4013             | 64.4                |
| 7            | 11-Aug-13<br>11:32:10 | 11:31:08   | 11-Aug-13<br>11:32:10 | 1.05     | 0.00          | 0                | 0.0                 |

| 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            | 11-Aug-13<br>10:25:20 | 37.5                  | 0.01                 | 0.01                        | 2519                      | 32.1               | 32.1                |
| 2            | 11-Aug-13<br>10:28:45 | 62.4                  | 0.36                 | 0.36                        | 4824                      | 55.4               | 55.7                |
| 3            | 11-Aug-13<br>10:56:53 | 63.2                  | 0.50                 | 0.55                        | 4062                      | 60.5               | 61.7                |
| 4            | 11-Aug-13<br>11:15:28 | 64.5                  | 0.76                 | 0.79                        | 3849                      | 61.1               | 62.9                |

| 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            | 11-Aug-13<br>11:27:46 | 64.4                  | 1.08                 | 1.08                        | 3830                      | 61.7               | 64.3                |
| 6            | 11-Aug-13<br>11:31:07 | 64.4                  | 0.02                 | 0.00                        | 3252                      | 51.9               | 51.9                |
| 7            | 11-Aug-13<br>11:32:10 | 0.0                   | 0.00                 | 0.00                        | 0                         | 0.0                | 0.0                 |

| 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            | 11-Aug-13<br>10:25:20 | 32.1                  | 0.00                        | 1981                        | 1555             | 1555              | 1505                |
| 2            | 11-Aug-13<br>10:28:45 | 55.7                  | 0.15                        | 6588                        | 7943             | 7997              | 7997                |
| 3            | 11-Aug-13<br>10:56:53 | 61.7                  | 0.41                        | 6138                        | 71541            | 72861             | 72861               |
| 4            | 11-Aug-13<br>11:15:28 | 62.9                  | 0.65                        | 5936                        | 47699            | 49115             | 49115               |
| 5            | 11-Aug-13<br>11:27:46 | 64.3                  | 0.91                        | 6034                        | 31894            | 33210             | 33210               |
| 6            | 11-Aug-13<br>11:31:07 | 51.9                  | 0.00                        | 4133                        | 6897             | 6897              | 6897                |
| 7            | 11-Aug-13<br>11:32:10 | 0.0                   | 0.00                        | 0                           | 0                | 0                 | 0                   |
| Total        |                       |                       |                             |                             | 167529           | 171635            | 171586              |

| Stage Number | Stage Time         | Prop Mass 100*lb |
|--------------|--------------------|------------------|
| 1            | 11-Aug-13 10:25:20 | 0.01             |

| Stage Number | Stage Time         | Prop Mass<br>100*lb |
|--------------|--------------------|---------------------|
| 2            | 11-Aug-13 10:28:45 | 12.00               |
| 3            | 11-Aug-13 10:56:53 | 290.76              |
| 4            | 11-Aug-13 11:15:28 | 311.99              |
| 5            | 11-Aug-13 11:27:46 | 289.87              |
| 6            | 11-Aug-13 11:31:07 | 0.00                |
| 7            | 11-Aug-13 11:32:10 | 0.00                |
| Total        |                    | 904.63              |

### 3.0 PERFORMANCE HIGHLIGHTS

#### 3.1 Job Summary

|            |                    |  |
|------------|--------------------|--|
| Start Time | 11-Aug-13 10:09:37 |  |
| End Time   | 11-Aug-13 11:32:10 |  |

| SKR 598-25-BV-08 Stage 1  |            |       |
|---|------------|-------|
| 8/11/2013   |            |       |
| Engineering Notes   |            |       |
| Engineer on Location  | Drew Mogck |       |
| ISDP  | 1322       | psi   |
| Initial Pressure(Breakdown)   | 4752       | psi   |
| Max Pressure  | 5324       | psi   |
| Average Pressure  | 3988       | psi   |
| Max Rate  | 64.5       | bpm   |
| Average Rate  | 63.22      | bpm   |
| Proppant Design Volume  | 105,338    | lbs   |
| Proppant in Formation   | 104,500    | lbs   |
| FR-66 Used  | 35         | gals  |
| BE-7 Used   | 130        | gals  |
| SandWedge WF  | 110        | lbs   |
| SCW-4212 Used   | 19         | gals  |
| Clean Volume  | 3989       | bbls  |
| Start Time  | 10:24 AM   | HH:MM |
| End Time  | 11:30 AM   | HH:MM |
| Job Notes:  |            |       |
| Pump neutralled out due to losing pod pressure in 0.75 ppg stage. Pumped to completion. |            |       |

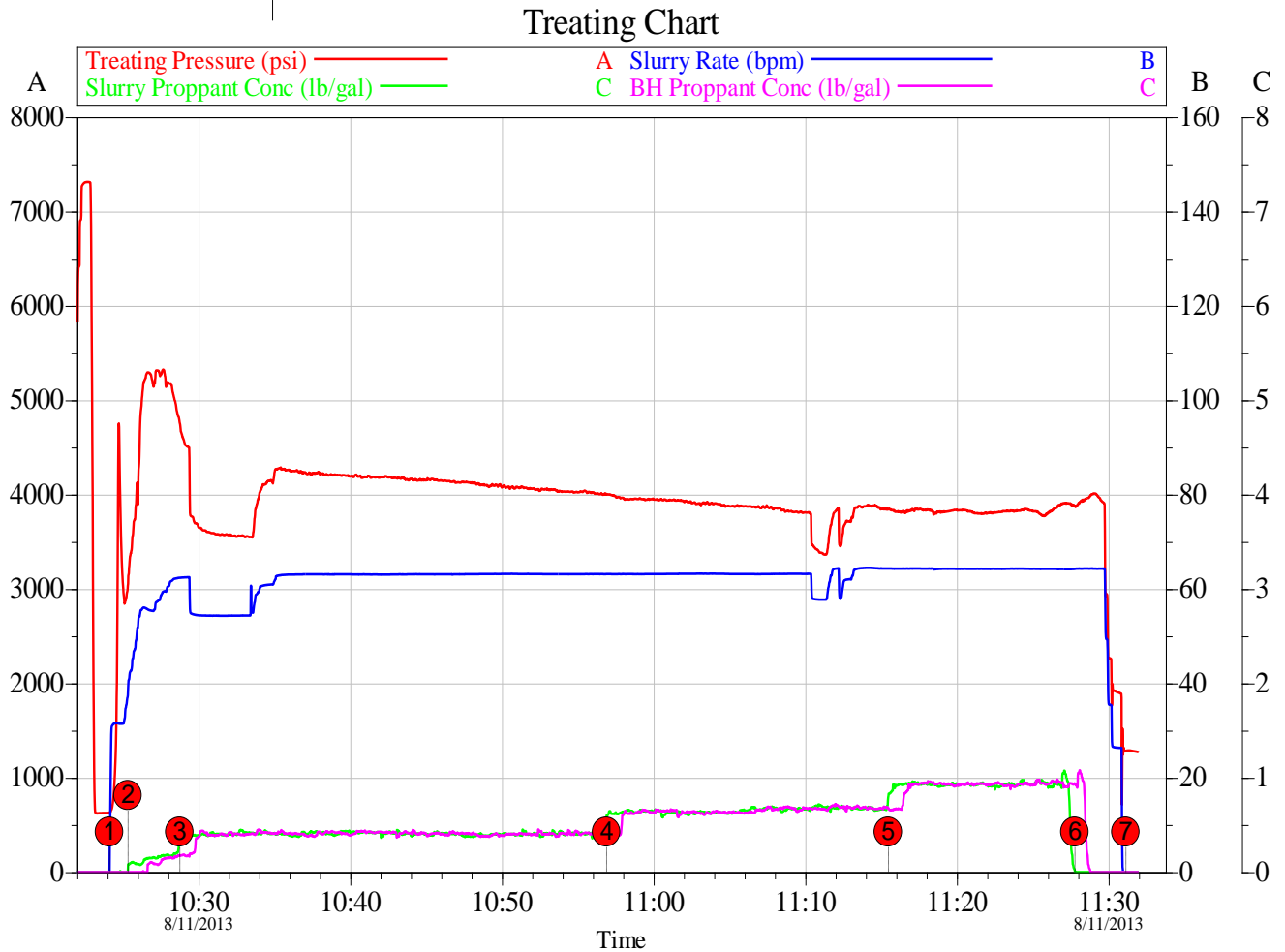


**3.2 Job Event Log**

| Stage Number | Event Number | Time               | Description     | Comment                                    | Treating Pressure psi | Slurry Rate bpm | Braden Pressure psi | Job Slurry Vol gal |
|--------------|--------------|--------------------|-----------------|--|-----------------------|-----------------|---------------------|--------------------|
|              | 1            | 11-Aug-13 10:09:37 | Start Job       | Starting Job                               |                       |                 |                     |                    |
| 1            |              | 10:24:08           | Stage 1         | Pad  | 634                   | 0.1             | 51                  | 0                  |
|              |              | 10:24:09           | Start Averaging | Start Avg Trt 1                            | 634                   | 8.0             | 51                  | 6                  |
|              | 2            | 10:24:44           | Break Formation | Break Formation=4752 psi, 31.5 bpm         | 4749                  | 31.5            | 52                  | 726                |
| 2            |              | 10:25:21           | Stage 2         | Proppant Laden Fluid                       | 3055                  | 37.5            | 51                  | 1555               |
| 3            |              | 10:28:46           | Stage 3         | Proppant Laden Fluid                       | 4756                  | 62.4            | 50                  | 9552               |
| 4            |              | 10:56:54           | Stage 4         | Proppant Laden Fluid                       | 4008                  | 63.2            | 36                  | 82413              |
|              | 3            | 11:10:07           | Other           | Lost pod pressure on pump, neutralled out. | 3809                  | 63.2            | 28                  | 117489             |
| 5            |              | 11:15:29           | Stage 5         | Proppant Laden Fluid                       | 3844                  | 64.3            | 26                  | 131528             |
| 6            |              | 11:27:47           | Stage 6         | Flush                                      | 3882                  | 64.3            | 20                  | 164738             |
|              | 4            | 11:30:54           | ISIP            | ISIP=1322 psi                              | 1322                  | 4.5             | 17                  | 171634             |
| 7            |              | 11:31:08           | Stage 7         | Shut-In                                    | 1286                  | 0.0             | 18                  | 171635             |
|              |              | 11:32:10           | End Averaging   | End Avg Trt 1                              | 253                   | 0.0             | 17                  | 171635             |
|              | 5            | 11:32:13           | End Job         | Ending Job                                 | 253                   | 0.0             | 17                  | 171635             |

## 4.0 ATTACHMENTS

### 4.1 Treating Chart

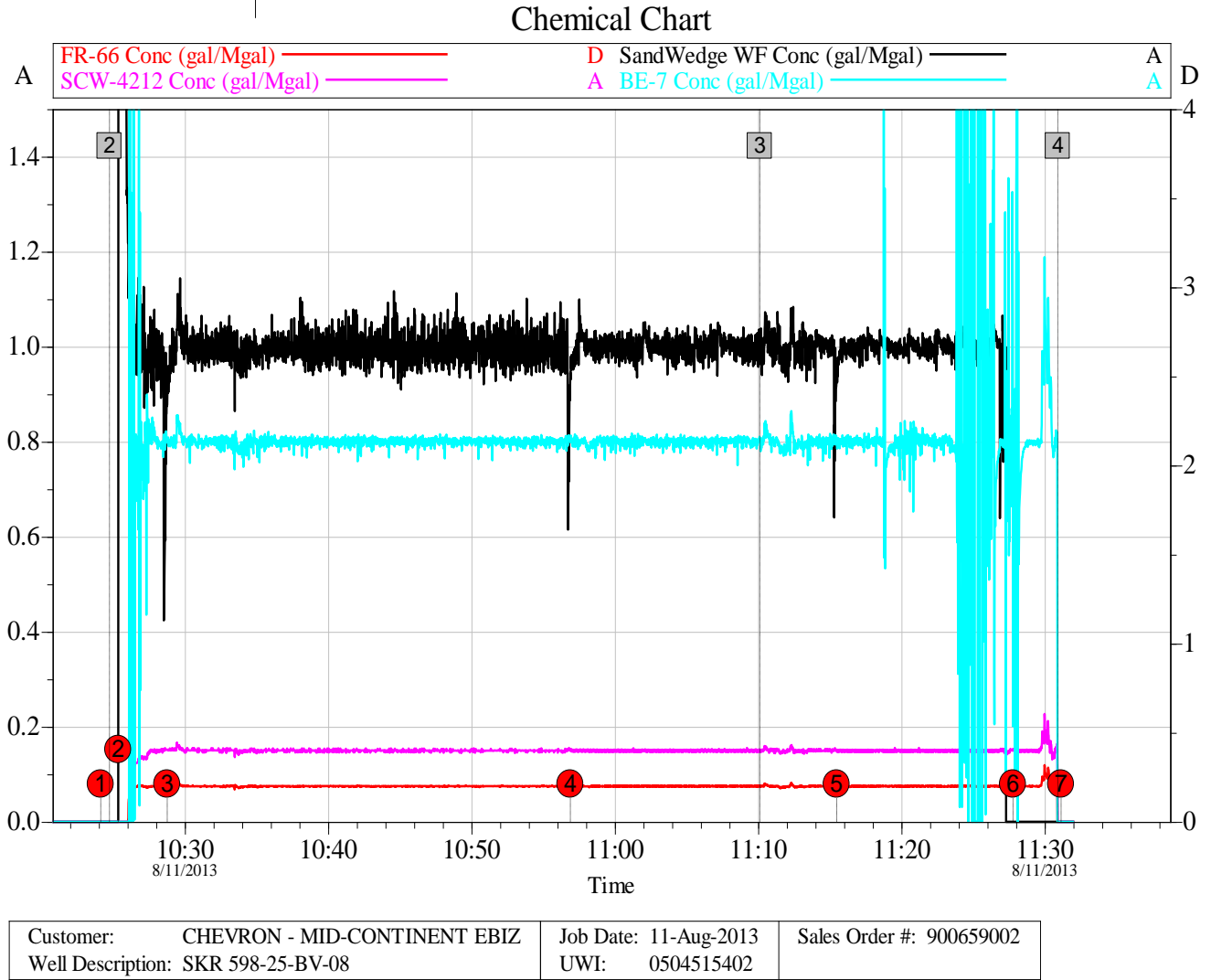


Customer: CHEVRON - MID-CONTINENT EBIZ  
Well Description: SKR 598-25-BV-08

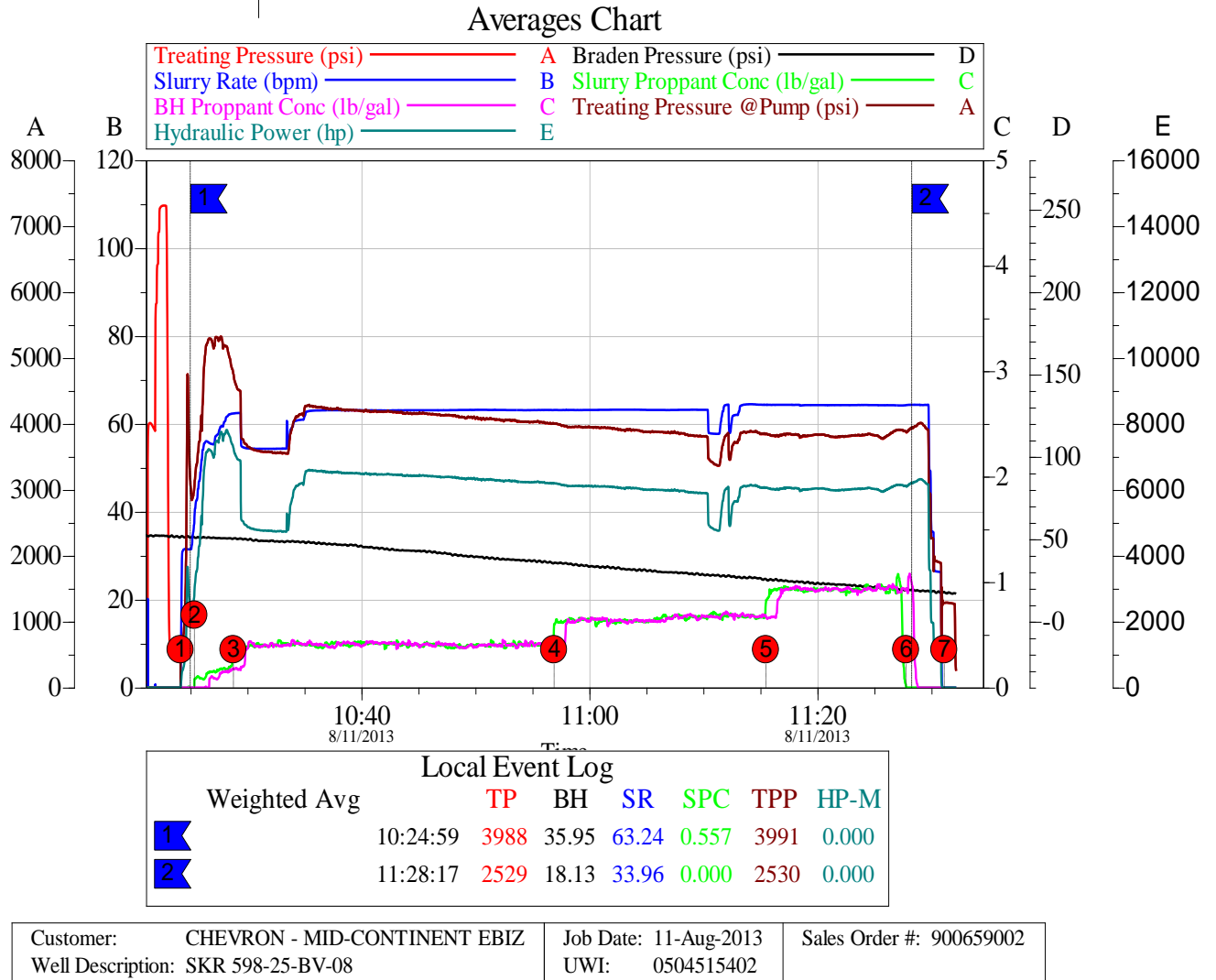
Job Date: 11-Aug-2013  
UWI: 0504515402

Sales Order #: 900659002

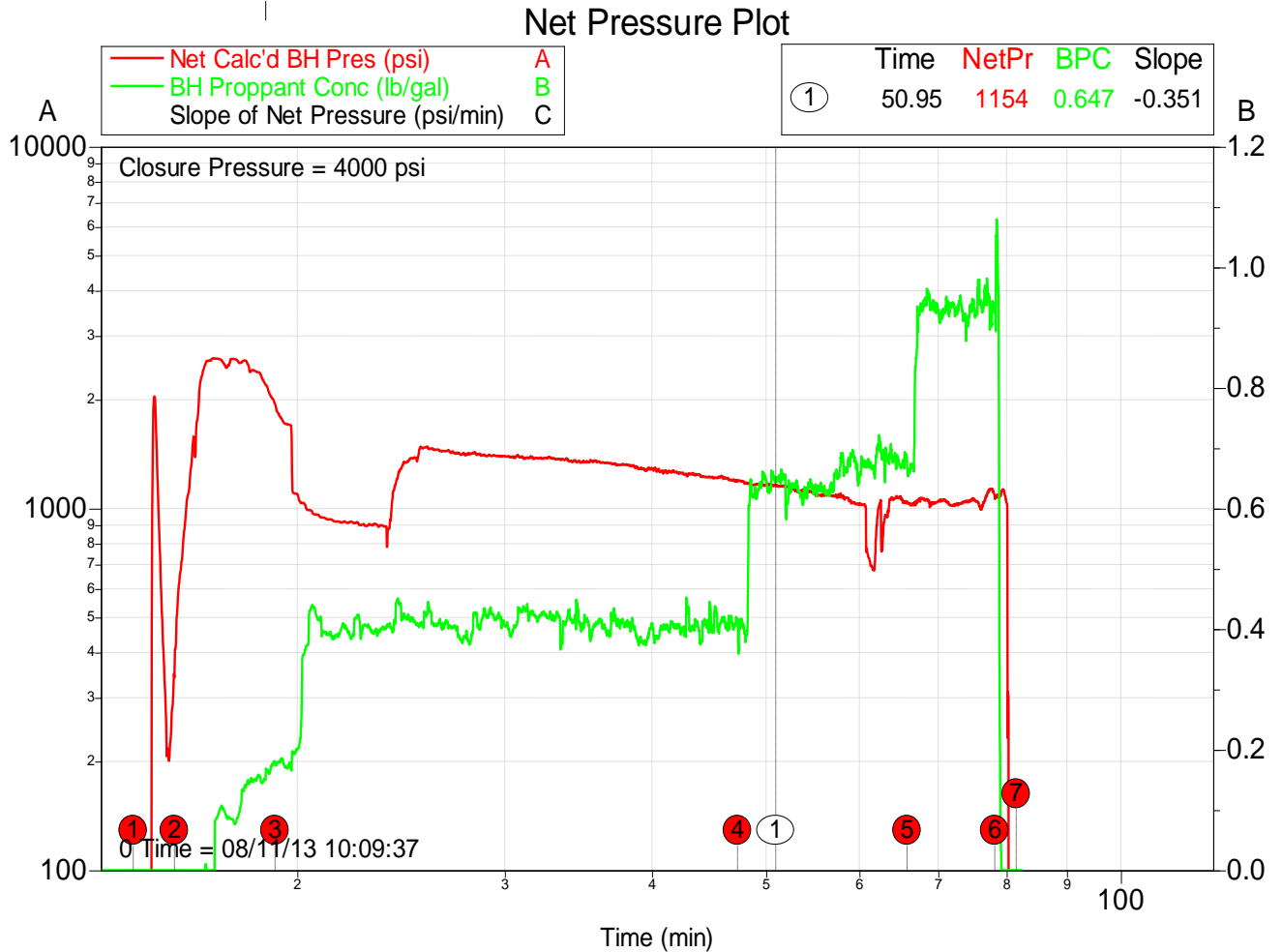
## 4.2 Chemical Chart



## 4.3 Averages Chart



## 4.4 Net Pressure Plot



Customer: CHEVRON - MID-CONTINENT EBIZ  
Well Description: SKR 598-25-BV-08

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