

*The Road to Excellence Starts with Safety*

|   |                   |   |                       |   |                                   |                                  |                      |                     |                            |                      |
|---|-------------------|---|-----------------------|---|-----------------------------------|----------------------------------|----------------------|---------------------|----------------------------|----------------------|
| <b>Sold To #:</b> 300466                                  |                   | <b>Ship To #:</b> 3855506                               |                       | <b>Quote #:</b> 0022461762                    |                                   | <b>Sales Order #:</b> 0904972547 |                      |                     |                            |                      |
| <b>Customer:</b> ANADARKO PETROLEUM CORP-EBUS             |                   |   |                       | <b>Customer Rep:</b> Levi Rogers/Albert Bryan |                                   |                                  |                      |                     |                            |                      |
| <b>Well Name:</b> GEORGE                                  |                   |   | <b>Well #:</b> 25-3HZ |   | <b>API/UWI #:</b> 05-123-46331-00 |                                  |                      |                     |                            |                      |
| <b>Field:</b> WATTENBERG                                  |                   | <b>City (SAP):</b> HUDSON                               |                       | <b>County/Parish:</b> WELD                    |                                   | <b>State:</b> COLORADO           |                      |                     |                            |                      |
| <b>Legal Description:</b> SW NE-25-2N-65W-2282FNL-2059FEL |                   |   |                       |   |                                   |                                  |                      |                     |                            |                      |
| <b>Contractor:</b> XTREME DRLG                            |                   |   |                       | <b>Rig/Platform Name/Num:</b> XTREME 22       |                                   |                                  |                      |                     |                            |                      |
| <b>Job BOM:</b> 7523 7523                                 |                   |   |                       |   |                                   |                                  |                      |                     |                            |                      |
| <b>Well Type:</b> HORIZONTAL GAS                          |                   |   |                       |   |                                   |                                  |                      |                     |                            |                      |
| <b>Sales Person:</b> HALAMERICA\HX41066                   |                   |   |                       | <b>Srv Supervisor:</b> Kamereon White         |                                   |                                  |                      |                     |                            |                      |
| <b>Job</b>  |                   |   |                       |   |                                   |                                  |                      |                     |                            |                      |
|   |                   |   |                       |   |                                   |                                  |                      |                     |                            |                      |
| <b>Formation Name</b>                                     |                   |   |                       |   |                                   |                                  |                      |                     |                            |                      |
| <b>Formation Depth (MD)</b>                               |                   | <b>Top</b>  |                       | 1917ft  |                                   | <b>Bottom</b>                    |                      | 18092ft             |                            |                      |
| <b>Form Type</b>  |                   |   |                       | BHST  |                                   |                                  |                      |                     |                            |                      |
| <b>Job depth MD</b>                                       |                   | 18082ft   |                       | <b>Job Depth TVD</b>                          |                                   | 7150ft                           |                      |                     |                            |                      |
| <b>Water Depth</b>  |                   |   |                       | <b>Wk Ht Above Floor</b>                      |                                   |                                  |                      |                     |                            |                      |
| <b>Perforation Depth (MD)</b>                             |                   | <b>From</b>   |                       |   |                                   | <b>To</b>                        |                      |                     |                            |                      |
|   |                   |   |                       |   |                                   |                                  |                      |                     |                            |                      |
| <b>Well Data</b>  |                   |   |                       |   |                                   |                                  |                      |                     |                            |                      |
| <b>Description</b>  | <b>New / Used</b> | <b>Size in</b>  | <b>ID in</b>          | <b>Weight lbm/ft</b>                          | <b>Thread</b>                     | <b>Grade</b>                     | <b>Top MD ft</b>     | <b>Bottom MD ft</b> | <b>Top TVD ft</b>          | <b>Bottom TVD ft</b> |
| Casing  |                   | 9.625   | 8.921                 | 36  |                                   | J-55                             | 0                    | 1917                | 0                          | 0                    |
| Casing  |                   | 5.5   | 4.892                 | 17  | LTC                               | HCP110                           | 0                    | 18082               | 0                          | 7148                 |
| Open Hole Section   |                   |   | 7.875                 |   |                                   |                                  | 1917                 | 18092               | 1917                       | 7148                 |
|   |                   |   |                       |   |                                   |                                  |                      |                     |                            |                      |
| <b>Tools and Accessories</b>                              |                   |   |                       |   |                                   |                                  |                      |                     |                            |                      |
| <b>Type</b>   | <b>Size in</b>    | <b>Qty</b>  | <b>Make</b>           | <b>Depth ft</b>                               |                                   | <b>Type</b>                      | <b>Size in</b>       | <b>Qty</b>          | <b>Make</b>                |                      |
|   |                   |   |                       |   |                                   | <b>Top Plug</b>                  | 5.5                  | 1                   | Wetherford                 |                      |
| <b>Float Shoe</b>   | 5.5               | 1   | WTHR                  | 18082   |                                   | <b>Bottom Plug</b>               | 5.5                  | 1                   | Wetherford                 |                      |
| <b>Float Collar</b>                                       | 5.5               | 1   | WTHR                  | 18064   |                                   |                                  |                      |                     |                            |                      |
|   |                   |   |                       |   |                                   | <b>Plug Container</b>            | 5.5                  | 1                   | HES                        |                      |
|   |                   |   |                       |   |                                   |                                  |                      |                     |                            |                      |
|   |                   |   |                       |   |                                   |                                  |                      |                     |                            |                      |
| <b>Fluid Data</b>   |                   |   |                       |   |                                   |                                  |                      |                     |                            |                      |
| <b>Stage/Plug #: 1</b>                                    |                   |   |                       |   |                                   |                                  |                      |                     |                            |                      |
| <b>Fluid #</b>  | <b>Stage Type</b> | <b>Fluid Name</b>                                       | <b>Qty</b>            | <b>Qty UoM</b>                                | <b>Mixing Density lbm/gal</b>     | <b>Yield ft3/sack</b>            | <b>Mix Fluid Gal</b> | <b>Rate bbl/min</b> | <b>Total Mix Fluid Gal</b> |                      |
| 1   | Tuned Spacer III  | Tuned Spacer III  | 80                    | bbl   | 10.5                              | 6.96                             | 44.4                 | 4                   |                            |                      |
| 0.70 gal/bbl  |                   | <b>DUAL SPACER SURFACTANT B, 5 GAL PAIL (100003665)</b> |                       |   |                                   |                                  |                      |                     |                            |                      |
| 0.25 gal/bbl  |                   | <b>D-AIR 3000L, 5 GAL PAIL (101007444)</b>              |                       |   |                                   |                                  |                      |                     |                            |                      |
| 79.92 lbm/bbl   |                   | <b>BARITE, BULK (100003681)</b>                         |                       |   |                                   |                                  |                      |                     |                            |                      |

| 0.70 gal/bbl        |                        | <b>MUSOL(R) A, 5 GAL PAIL (100064220)</b>                   |                     |         |                           |                   |                  |                        |                        |
|---------------------|------------------------|---|---------------------|---------|---------------------------|-------------------|------------------|------------------------|------------------------|
| 37.58 gal/bbl       |                        | <b>FRESH WATER</b>  |                     |         |                           |                   |                  |                        |                        |
|                     |                        |   |                     |         |                           |                   |                  |                        |                        |
| Fluid #             | Stage Type             | Fluid Name  | Qty                 | Qty UoM | Mixing Density<br>lbm/gal | Yield<br>ft3/sack | Mix Fluid<br>Gal | Rate<br>bbl/min        | Total Mix Fluid<br>Gal |
| 2                   | Gasstop B1             | GASSTOP (TM) SYSTEM   | 630                 | sack    | 13.2                      | 1.59              | 7.83             | 6                      | 7.83                   |
| 0.10 Gal            |                        | <b>D-AIR 3000L, TOTETANK (101396181)</b>                    |                     |         |                           |                   |                  |                        |                        |
| 0.05 %              |                        | <b>FE-2 (100001615)</b>                                     |                     |         |                           |                   |                  |                        |                        |
| 0.60 %              |                        | <b>SCR-100 (100003749)</b>                                  |                     |         |                           |                   |                  |                        |                        |
| 5.23 Gal            |                        | <b>FRESH WATER</b>  |                     |         |                           |                   |                  |                        |                        |
|                     |                        |   |                     |         |                           |                   |                  |                        |                        |
| Fluid #             | Stage Type             | Fluid Name  | Qty                 | Qty UoM | Mixing Density<br>lbm/gal | Yield<br>ft3/sack | Mix Fluid<br>Gal | Rate<br>bbl/min        | Total Mix Fluid<br>Gal |
| 3                   | EconoCem               | ECONOCEM (TM) SYSTEM  | 1090                | sack    | 13.5                      | 1.68              |                  | 6                      | 7.98                   |
| 0.10 %              |                        | <b>SA-1015, 50 LB SACK (102077046)</b>                      |                     |         |                           |                   |                  |                        |                        |
| 7.99 Gal            |                        | <b>FRESH WATER</b>  |                     |         |                           |                   |                  |                        |                        |
| 0.40 %              |                        | <b>HR-5, 50 LB SK (100005050)</b>                           |                     |         |                           |                   |                  |                        |                        |
|                     |                        |   |                     |         |                           |                   |                  |                        |                        |
| Fluid #             | Stage Type             | Fluid Name  | Qty                 | Qty UoM | Mixing Density<br>lbm/gal | Yield<br>ft3/sack | Mix Fluid<br>Gal | Rate<br>bbl/min        | Total Mix Fluid<br>Gal |
| 4                   | Biocide Water and MMCR | Biocide Water and MMCR                                      | 20                  | bbl     | 8.34                      |                   |                  |                        |                        |
| 0.50 gal/bbl        |                        | <b>MICRO MATRIX CEMENT RETARDER, 5 GAL PAIL (100003781)</b> |                     |         |                           |                   |                  |                        |                        |
|                     |                        |   |                     |         |                           |                   |                  |                        |                        |
| Fluid #             | Stage Type             | Fluid Name  | Qty                 | Qty UoM | Mixing Density<br>lbm/gal | Yield<br>ft3/sack | Mix Fluid<br>Gal | Rate<br>bbl/min        | Total Mix Fluid<br>Gal |
| 5                   | Biocide Water          | Biocide Water   | 20                  | bbl     | 8.34                      |                   |                  |                        |                        |
|                     |                        |   |                     |         |                           |                   |                  |                        |                        |
|                     |                        |   |                     |         |                           |                   |                  |                        |                        |
| Cement Left In Pipe |                        | Amount  | 5 ft                |         |                           | Reason            |                  | Shoe Joint             |                        |
| Mix Water:          |                        | pH 7  | Mix Water Chloride: |         |                           | <400 ppm          |                  | Mix Water Temperature: |                        |
| Cement Temperature: |                        |   | Plug Displaced by:  |         |                           | 8.33 lb/gal       |                  | Disp. Temperature:     |                        |
| Plug Bumped?        |                        | Yes   | Bump Pressure:      |         |                           | 2600 psi          |                  | Floats Held?           |                        |
| Cement Returns:     |                        | 0 bbl   | Returns Density:    |         |                           | 9.2 lb/gal        |                  | Returns Temperature:   |                        |
| Comment             |                        |   |                     |         |                           |                   |                  |                        |                        |

## 2.0 Real-Time Job Summary

## 2.1 Job Event Log

| Type  | Seq. No. | Activity                                 | Graph Label                              | Date     | Time     | Source | Comments   |
|-------|----------|--|--|----------|----------|--------|--|
| Event | 1        | Call Out                                 | Call Out                                 | 7/6/2018 | 06:00:00 | USER   | Crew was called out at 0600 and was requested to be on location at 1300.   |
| Event | 2        | Depart from Service Center or Other Site | Depart from Service Center or Other Site | 7/6/2018 | 11:40:00 | USER   | crew departed from service center and supervisor called in a journey.  |
| Event | 3        | Arrive at Location from Service Center   | Arrive at Location from Service Center   | 7/6/2018 | 12:15:00 | USER   | Crew arrived on location early and the rig was still running casing.   |
| Event | 4        | Assessment Of Location Safety Meeting    | Assessment Of Location Safety Meeting    | 7/6/2018 | 12:20:00 | USER   | The crew dissused rig up prcedures. Supervisor went a got numbers from the company man. TD 18092 TP 18082 FC 18064 Casing Size 5.5 17# P-110 PC 9.625 36# set at 1917 TVD 7150 . |
| Event | 5        | Safety Meeting - Pre Rig-Up              | Pre-Rig Up Safety Meeting                | 7/6/2018 | 13:15:00 | USER   | Disssussed JSA and signed it.  |

|       |    |                |                          |          |          |      |   |
|-------|----|----------------|--------------------------|----------|----------|------|---|
| Event | 6  | Other          | Rig Up Equipment         | 7/6/2018 | 13:20:00 | USER | Rig up all HES equipment and lines safely.  |
| Event | 7  | Other          | Rig Up Completed         | 7/6/2018 | 14:20:00 | USER | All HES equipment and lines rigged up safely and no one got hurt.   |
| Event | 8  | Safety Meeting | Safety Meeting - Pre Job | 7/6/2018 | 16:40:00 | USER | Dissused job procedures and pressures with all involved with job.   |
| Event | 9  | Other          | Other                    | 7/6/2018 | 17:06:55 | COM4 | Filled lines with 3bbls of fresh water at 3bpm at 330psi.   |
| Event | 10 | Test Lines     | Test Lines               | 7/6/2018 | 17:09:55 | COM4 | Tested lines to 500 to test kickouts and then preformed a highpressure test to 4500psi and held for 3 minutes and no leaks. |
| Event | 11 | Check Weight   | Check Weight             | 7/6/2018 | 17:13:50 | COM4 | Checked the weight of the spacer with pressurized mud scales. The slurry scaled at 10.5ppg.                                 |
| Event | 12 | Pump Spacer 1  | Pump Spacer 1            | 7/6/2018 | 17:14:44 | COM4 | Pumped 80 bbls of tuned spacer with surfactants at 10.5ppg 6.96 yield 44.4 gals/sk @ 4bpm at 320psi                         |

|       |    |                  |                  |          |          |      |  |
|-------|----|------------------|------------------|----------|----------|------|--|
| Event | 13 | Drop Bottom Plug | Drop Bottom Plug | 7/6/2018 | 17:32:16 | COM4 | Company man witnessed the bottom plug drop.  |
| Event | 14 | Shutdown         | Shutdown         | 7/6/2018 | 17:32:30 | COM4 | Shutdown to zero out totals. Weighed up lead cement to 13.2ppg with pressurized mud scales.        |
| Event | 15 | Pump Lead Cement | Pump Lead Cement | 7/6/2018 | 17:34:39 | COM4 | Pumped 178 bbls of latex lead cement at 13.2 ppg 1.59 yield 7.83 gals/sk (630 sks) 6bpm at 340psi. |
| Event | 16 | Check Weight     | Check Weight     | 7/6/2018 | 17:37:51 | COM4 | Checked the weight of the lead cement at 13.2 ppg.   |
| Event | 17 | Check Weight     | Check Weight     | 7/6/2018 | 17:49:07 | COM4 | Checked the weight of the cement scaled at 13.5 ppg.   |
| Event | 18 | Check Weight     | Check Weight     | 7/6/2018 | 18:10:01 | COM4 | Checked the weight of the cement it weighed up at 12.9ppg.   |
| Event | 19 | Pump Tail Cement | Pump Tail Cement | 7/6/2018 | 18:14:51 | COM4 | Pumped 326 bbls of tail cement at 13.5 ppg 1.68 yield 7.98 gals/sk (1090 sks)                      |

|       |    |                      |                      |          |          |      |   |
|-------|----|----------------------|----------------------|----------|----------|------|---|
| Event | 20 | Check Weight         | Check Weight         | 7/6/2018 | 18:19:06 | COM4 | Checked the weight of the tail cement it weighed up at 13.5 ppg using pressurized mud scales.   |
| Event | 21 | Shutdown             | Shutdown             | 7/6/2018 | 18:59:20 | COM4 | Shutdown to blow lines down to wash up tank and washed pumps and lines.   |
| Event | 22 | Drop Top Plug        | Drop Top Plug        | 7/6/2018 | 19:10:24 | COM4 | Company man witnessed top plug drop.  |
| Event | 23 | Pump Displacement    | Pump Displacement    | 7/6/2018 | 19:10:28 | COM4 | Displaced 419 Bbls of water with the first 20 bls with MMCR and and 20 Bbls with biocide. at 45bbls away Caught the plug and maintained 10bpm.  |
| Event | 24 | Displ Reached Cement | Displ Reached Cement | 7/6/2018 | 19:15:43 | COM4 | Displacement reached cement at 45 bbls away.  |
| Event | 25 | Bump Plug            | Bump Plug            | 7/6/2018 | 20:06:39 | COM4 | Bumped the plug on calculated displacement final circulating pressure was 2600psi took it 500 psi over to 3100psi and shut down waited 15 mins for casing test. pressure gained 300 psi . |
| Event | 26 | Other                | Other                | 7/6/2018 | 20:14:03 | COM4 | Pressured up to rupture disk. The disk ruptured at 4200 psi.  |

|       |    |                             |                             |          |          |      |   |
|-------|----|-----------------------------|-----------------------------|----------|----------|------|---|
| Event | 27 | Other                       | Other                       | 7/6/2018 | 20:15:48 | COM4 | Pumped 3bbl wet shoe as customer requested. Checked floats floats held got 3 bbls back to truck.  |
| Event | 28 | End Job                     | End Job                     | 7/6/2018 | 20:17:02 | COM4 | Cement job complete.  |
| Event | 29 | Rig-Down Completed          | Rig-Down Completed          | 7/6/2018 | 20:20:00 | USER | All HES lines and equipment rigged down safely. No one got hurt.  |
| Event | 30 | Pre-Rig Down Safety Meeting | Pre-Rig Down Safety Meeting | 7/6/2018 | 20:20:00 | USER | Crew held pre rig down safety meeting. discussed rig down procedures.   |
| Event | 31 | Depart Location             | Depart Location             | 7/6/2018 | 22:00:00 | USER | Kamereon White and crew would like to thank you for your business and choosing Halliburton Cement. Please give us a call if you have any questions. |

## 3.0 Attachments

### 3.1 Job Chart

Custom Results

