

Bayswater Exploration

G&D Hanks V-27-28HN

Intervals 1-53

Niobrara Formation

Weld County, CO

API: 05-123-46035

Prepared for: Robert Carney

December 15, 2018

Stimulation Treatment Post Job Report

Prepared By:

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Silver Crew

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Engineering Executive Summary

On November 01, 2018 a stimulation treatment was performed in the Niobrara formation on the G&D Hanks V-27-28HN well in Weld County, CO. The G&D Hanks V-27-28HN was a 53 stage Horizontal Plug and Perf Design. The proposed treatment consisted of:

28,037,000 gallons of FR Water
26,500 gallons of 15% HCl Acid
20,060,500 gallons of Proppant Laden Fluid
1,240,200 pounds of 100 Mesh
11,161,800 pounds of 30/50 White

The actual treatment fully completed 50 of 53 stages. During the treatment 0 stages were skipped, and 3 stages screened out or were otherwise cut short of design. The actual treatment consisted of:

26,716,483 gallons of FR Water
428,324 gallons of Fresh Water
23,000 gallons of 15% HCl Acid
18,926,241 gallons of Proppant Laden Fluid
1,245,040 pounds of 100 Mesh
11,061,280 pounds of 30/50 White

A more detailed description of the actual treatment can be found in the attached reports. The following comments were provided to summarize events and changes to the proposed treatment:

Intervals 9, 13, and 48 were cut short due to pressure. Please see stage comments for more details.

Started DiverterPlus 1315 and 1325 diverter on Interval 5, per Bayswater. Utilized Halliburton's Prodigy AB technology on Intervals 16, 18 and 23. Pumped additional chemicals on these intervals to help optimize the technology. DiverterPlus 1300 powder diverter was pumped on Interval 24 instead of 1325 powder diverter. Starting on Interval 23 for the remainder of the well, no diverter was dropped on the second dirty sweep since no significant pressure response had been observed. Starting on Interval 29 there was a design change -- no longer pumped the clean sweep stage, and pumped the last dirty sweep at 0.50 ppg instead of 0.25 ppg concentration. Please see stage comments for more details.

On interval 11 there were issues priming up due to miscommunication, and Halliburton had to come offline because of the blender. Came offline during Interval 12 because we were told we were communicating with a nearby well. Operations were shut down from 11/2 - 11/7 because of wellhead communication issues. Interval 48 had to be cut short because Halliburton could not get a 30/50 box to open on the sand structure, resulting in not pumping the last sand stage and ending the interval early.

Halliburton is strongly committed to quality control on location. Before and after each job all chemicals, proppants, and fluid volumes are measured to assure the highest level of quality control. Tank fluid analysis, crosslink time, and break tests are performed before each job in order to optimize the performance of the treatment fluids.

FightR EC-1 setpoint was started at 0.75 gpt instead of 0.50 gpt for most intervals. The setpoint was adjusted on-the-fly for the remainder of the interval, based on pressure response. Optikleen setpoint was held at 0.50 ppt, as requested by customer rep. Starting on Interval 37, 250 gal (half of 500 gal as designed) of the 15% acid was used, except the full amount was used again on Interval 41. Please see stage comments for additional details.

Halliburton maintains a continuous quality improvement process and appreciates any comments or suggestions that you may have. Halliburton again thanks you for the opportunity to perform service work on this well. We hope to be your solutions provider for future projects.

Thank you,

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Customer Bayswater Exploration
Lease G&D Hanks V-27-28HN
Formation Niobrara
API 05-123-46035
Date November 1, 2018



| Wellbore Summary | | |
|------------------|--------|--------|
| Tubular | Top MD | Bot MD |
| 5.5" 20# Casing | 0 | 18,169 |

| Directional Data | | |
|------------------|-----------|--|
| KOP | 7,084 ft | |
| Avg. TVD | 7,206 ft | |
| Total MD | 18,169 ft | |

| | | | Sleeve / Perf Depth (ft) | | | Perforation Data | | | | | | |
|--------|---------------------------------------|---------------------------------------|--------------------------|-------------|--------|---------------------------------|----------------------|----------------------|--------------------|---------------------|---------------|--------------------|
| Zone # | Displacement to Sleeve/Top Perf (gal) | Displacement to Sleeve/Top Perf (bbl) | Top MD (ft) | Btm MD (ft) | Zone # | Number of Perf Clusters (count) | Cluster Spacing (ft) | Perf Gun Length (ft) | Perf Density (spf) | Total Perfs (count) | Phasing (deg) | Perf Diameter (in) |
| 1 | 16,650 | 396 | 17,876 | 18,059 | 1 | MULTISTAGE SLEEVE | | | | | | |
| 2 | 16,435 | 391 | 17,645 | 17,831 | 2 | MULTISTAGE SLEEVE | | | | | | |
| 3 | 16,218 | 386 | 17,413 | 17,598 | 3 | MULTISTAGE SLEEVE | | | | | | |
| 4 | 16,008 | 381 | 17,187 | 17,366 | 4 | MULTISTAGE SLEEVE | | | | | | |
| 5 | 15,796 | 376 | 16,959 | 17,143 | 5 | MULTISTAGE SLEEVE | | | | | | |
| 6 | 15,580 | 371 | 16,727 | 16,913 | 6 | MULTISTAGE SLEEVE | | | | | | |
| 7 | 15,363 | 366 | 16,495 | 16,680 | 7 | MULTISTAGE SLEEVE | | | | | | |
| 8 | 15,147 | 361 | 16,263 | 16,449 | 8 | MULTISTAGE SLEEVE | | | | | | |
| 9 | 14,931 | 356 | 16,031 | 16,217 | 9 | MULTISTAGE SLEEVE | | | | | | |
| 10 | 14,716 | 350 | 15,800 | 15,985 | 10 | MULTISTAGE SLEEVE | | | | | | |
| 11 | 14,514 | 346 | 15,583 | 15,737 | 11 | 9 | 23 | 1 | 3 | 40 | 360 | 0.33 |
| 12 | 14,346 | 342 | 15,403 | 15,557 | 12 | 9 | 23 | 1 | 3 | 40 | 360 | 0.33 |
| 13 | 14,179 | 338 | 15,223 | 15,377 | 13 | 9 | 23 | 1 | 3 | 40 | 360 | 0.33 |
| 14 | 14,011 | 334 | 15,043 | 15,197 | 14 | 9 | 23 | 1 | 3 | 40 | 360 | 0.33 |
| 15 | 13,843 | 330 | 14,863 | 15,017 | 15 | 9 | 23 | 1 | 3 | 40 | 360 | 0.33 |
| 16 | 13,676 | 326 | 14,683 | 14,837 | 16 | 9 | 23 | 1 | 3 | 40 | 360 | 0.33 |
| 17 | 13,508 | 322 | 14,503 | 14,657 | 17 | 9 | 23 | 1 | 3 | 40 | 360 | 0.33 |
| 18 | 13,340 | 318 | 14,323 | 14,477 | 18 | 9 | 23 | 1 | 3 | 40 | 360 | 0.33 |
| 19 | 13,173 | 314 | 14,143 | 14,297 | 19 | 9 | 23 | 1 | 3 | 40 | 360 | 0.33 |
| 20 | 13,005 | 310 | 13,963 | 14,117 | 20 | 9 | 23 | 1 | 3 | 40 | 360 | 0.33 |
| 21 | 12,837 | 306 | 13,783 | 13,937 | 21 | 9 | 23 | 1 | 3 | 40 | 360 | 0.33 |
| 22 | 12,670 | 302 | 13,603 | 13,757 | 22 | 9 | 23 | 1 | 3 | 40 | 360 | 0.33 |
| 23 | 12,502 | 298 | 13,423 | 13,577 | 23 | 9 | 23 | 1 | 3 | 40 | 360 | 0.33 |
| 24 | 12,335 | 294 | 13,243 | 13,397 | 24 | 9 | 23 | 1 | 3 | 40 | 360 | 0.33 |
| 25 | 12,167 | 290 | 13,063 | 13,217 | 25 | 9 | 23 | 1 | 3 | 40 | 360 | 0.33 |
| 26 | 11,999 | 286 | 12,883 | 13,037 | 26 | 9 | 23 | 1 | 3 | 40 | 360 | 0.33 |
| 27 | 11,832 | 282 | 12,703 | 12,857 | 27 | 9 | 23 | 1 | 3 | 40 | 360 | 0.33 |
| 28 | 11,664 | 278 | 12,523 | 12,677 | 28 | 9 | 23 | 1 | 3 | 40 | 360 | 0.33 |
| 29 | 11,496 | 274 | 12,343 | 12,497 | 29 | 9 | 23 | 1 | 3 | 40 | 360 | 0.33 |
| 30 | 11,329 | 270 | 12,163 | 12,317 | 30 | 9 | 23 | 1 | 3 | 40 | 360 | 0.33 |
| 31 | 11,161 | 266 | 11,983 | 12,137 | 31 | 9 | 23 | 1 | 3 | 40 | 360 | 0.33 |
| 32 | 10,993 | 262 | 11,803 | 11,957 | 32 | 9 | 23 | 1 | 3 | 40 | 360 | 0.33 |
| 33 | 10,826 | 258 | 11,623 | 11,777 | 33 | 9 | 23 | 1 | 3 | 40 | 360 | 0.33 |
| 34 | 10,658 | 254 | 11,443 | 11,597 | 34 | 9 | 23 | 1 | 3 | 40 | 360 | 0.33 |
| 35 | 10,490 | 250 | 11,263 | 11,417 | 35 | 9 | 23 | 1 | 3 | 40 | 360 | 0.33 |
| 36 | 10,323 | 246 | 11,083 | 11,237 | 36 | 9 | 23 | 1 | 3 | 40 | 360 | 0.33 |
| 37 | 10,155 | 242 | 10,903 | 11,057 | 37 | 9 | 23 | 1 | 3 | 40 | 360 | 0.33 |
| 38 | 9,987 | 238 | 10,723 | 10,877 | 38 | 9 | 23 | 1 | 3 | 40 | 360 | 0.33 |
| 39 | 9,820 | 234 | 10,543 | 10,697 | 39 | 9 | 23 | 1 | 3 | 40 | 360 | 0.33 |
| 40 | 9,652 | 230 | 10,363 | 10,517 | 40 | 9 | 23 | 1 | 3 | 40 | 360 | 0.33 |
| 41 | 9,484 | 226 | 10,183 | 10,337 | 41 | 9 | 23 | 1 | 3 | 40 | 360 | 0.33 |
| 42 | 9,317 | 222 | 10,003 | 10,157 | 42 | 9 | 23 | 1 | 3 | 40 | 360 | 0.33 |
| 43 | 9,149 | 218 | 9,823 | 9,977 | 43 | 9 | 23 | 1 | 3 | 40 | 360 | 0.33 |
| 44 | 8,981 | 214 | 9,643 | 9,797 | 44 | 9 | 23 | 1 | 3 | 40 | 360 | 0.33 |
| 45 | 8,814 | 210 | 9,463 | 9,617 | 45 | 9 | 23 | 1 | 3 | 40 | 360 | 0.33 |
| 46 | 8,646 | 206 | 9,283 | 9,437 | 46 | 9 | 23 | 1 | 3 | 40 | 360 | 0.33 |
| 47 | 8,479 | 202 | 9103 | 9257 | 47 | 9 | 23 | 1 | 3 | 40 | 360 | 0.33 |
| 48 | 8,311 | 198 | 8,923 | 9,077 | 48 | 9 | 23 | 1 | 3 | 40 | 360 | 0.33 |
| 49 | 8,143 | 194 | 8743 | 8897 | 49 | 9 | 23 | 1 | 3 | 40 | 360 | 0.33 |
| 50 | 7,976 | 190 | 8,563 | 8,717 | 50 | 9 | 23 | 1 | 3 | 40 | 360 | 0.33 |
| 51 | 7,808 | 186 | 8383 | 8537 | 51 | 9 | 23 | 1 | 3 | 40 | 360 | 0.33 |
| 52 | 7,640 | 182 | 8,203 | 8,357 | 52 | 9 | 23 | 1 | 3 | 40 | 360 | 0.33 |
| 53 | 7,473 | 178 | 8023 | 8177 | 53 | 9 | 23 | 1 | 3 | 40 | 360 | 0.33 |

Customer Bayswater Exploration
Formation Niobrara
Lease G&D Hanks V-27-28HN
API 05-123-46035
Date November 01, 2018

Stage Summaries

| Interval | Average | | | | Max | | ISIP | | FR Water | | Fresh Water | | Fluids | | Proppant Laden Fluid | | Total Fluid | | 100 Mesh Ticket Weight | 30/50 Ticket Weight | Total Proppant Ticket Weight |
|----------|----------|------|------|------|----------|------|------|--------|----------|--------|-------------|-----|--------------|-----|----------------------|--------|-------------|--------|------------------------|---------------------|------------------------------|
| | Pressure | Rate | Temp | pH | Pressure | Rate | psi | psi/ft | gal | bbl | gal | bbl | 15% HCl Acid | | gal | bbl | gal | bbl | lbs | lbs | lbs |
| | | | | | | | | | | | | | gal | bbl | gal | bbl | gal | bbl | | | |
| 1 | 7530 | 68.4 | 57 | 7.90 | 8265 | 70.7 | 4955 | 1.121 | 586,014 | 13,953 | 0 | | 1,000 | 24 | 382,659 | 9,111 | 587,014 | 13,977 | 23,400 | 210,600 | 234,000 |
| 2 | 7661 | 68.0 | 54 | 7.96 | 8035 | 72.2 | 4864 | 1.108 | 566,047 | 13,477 | 0 | | 500 | 12 | 387,398 | 9,224 | 566,547 | 13,489 | 23,400 | 220,010 | 243,410 |
| 3 | 7754 | 64.5 | 52 | 7.92 | 8108 | 70.3 | 4870 | 1.109 | 539,393 | 12,843 | 0 | | 500 | 12 | 385,834 | 9,187 | 539,893 | 12,855 | 23,700 | 212,800 | 236,500 |
| 4 | 7659 | 66.5 | 51 | 7.84 | 8038 | 70.6 | 4781 | 1.096 | 538,596 | 12,824 | 0 | | 500 | 12 | 386,636 | 9,206 | 539,096 | 12,836 | 23,350 | 213,600 | 236,950 |
| 5 | 7570 | 64.4 | 48 | 8.21 | 8051 | 74.4 | 4815 | 1.101 | 541,882 | 12,902 | 0 | | 500 | 12 | 385,274 | 9,173 | 542,382 | 12,914 | 23,200 | 212,200 | 235,400 |
| 6 | 7511 | 71.7 | 49 | 8.21 | 7827 | 81.4 | 4837 | 1.104 | 529,183 | 12,600 | 0 | | 500 | 12 | 374,977 | 8,928 | 529,683 | 12,612 | 23,400 | 216,700 | 240,100 |
| 7 | 7279 | 60.8 | 52 | 7.75 | 8024 | 72.5 | 4759 | 1.093 | 534,795 | 12,733 | 0 | | 500 | 12 | 382,918 | 9,117 | 535,295 | 12,745 | 23,200 | 211,000 | 234,200 |
| 8 | 7371 | 59.6 | 51 | 7.63 | 8068 | 77.1 | 4831 | 1.103 | 536,913 | 12,784 | 0 | | 500 | 12 | 384,914 | 9,165 | 537,413 | 12,796 | 23,100 | 209,600 | 232,700 |
| 9 | 7299 | 59.1 | 56 | 7.75 | 8220 | 65.8 | 4767 | 1.095 | 447,032 | 10,644 | 0 | | 500 | 12 | 304,076 | 7,240 | 447,532 | 10,656 | 23,300 | 143,800 | 167,100 |
| 10 | 7281 | 66.3 | 54 | 7.81 | 8248 | 76.7 | 4816 | 1.101 | 603,341 | 14,365 | 8,904 | 212 | 500 | 12 | 452,678 | 10,778 | 612,745 | 14,589 | 23,100 | 210,600 | 233,700 |
| 11 | 6973 | 67.7 | 37 | 7.92 | 7901 | 79.7 | 4952 | 1.120 | 568,192 | 13,528 | 16,380 | 390 | 500 | 12 | 380,329 | 9,055 | 585,072 | 13,930 | 23,500 | 208,600 | 232,100 |
| 12 | 7114 | 60.6 | 56 | 7.76 | 7707 | 66.5 | 4967 | 1.122 | 577,561 | 13,751 | 19,236 | 458 | 500 | 12 | 405,052 | 9,644 | 597,297 | 14,221 | 23,400 | 211,000 | 234,400 |
| 13 | 7133 | 65.3 | 53 | 7.82 | 7905 | 72.6 | 4830 | 1.103 | 539,210 | 12,838 | 16,716 | 398 | 500 | 12 | 378,397 | 9,009 | 556,426 | 13,248 | 23,400 | 202,200 | 225,600 |
| 14 | 6964 | 66.4 | 54 | 8.03 | 7701 | 75.4 | 4828 | 1.103 | 548,261 | 13,054 | 16,044 | 382 | 500 | 12 | 391,202 | 9,314 | 564,805 | 13,448 | 23,400 | 211,000 | 234,400 |
| 15 | 6842 | 64.7 | 55 | 7.95 | 7419 | 66.7 | 4835 | 1.104 | 533,863 | 12,711 | 15,582 | 371 | 500 | 12 | 383,166 | 9,123 | 549,945 | 13,094 | 23,500 | 211,500 | 235,000 |
| 16 | 7282 | 70.8 | 57 | 7.81 | 7954 | 75.4 | 4825 | 1.103 | 542,666 | 12,921 | 14,784 | 352 | 500 | 12 | 387,230 | 9,220 | 557,950 | 13,285 | 23,700 | 211,000 | 234,700 |
| 17 | 7003 | 66.5 | 58 | 7.68 | 7693 | 73.2 | 4797 | 1.099 | 536,217 | 12,767 | 14,658 | 349 | 500 | 12 | 383,963 | 9,142 | 551,375 | 13,128 | 22,200 | 211,000 | 233,200 |
| 18 | 7296 | 68.3 | 51 | 7.29 | 7873 | 77.5 | 4837 | 1.104 | 539,812 | 12,853 | 14,238 | 339 | 500 | 12 | 384,688 | 9,159 | 554,550 | 13,204 | 23,600 | 211,000 | 234,600 |
| 19 | 7395 | 71.9 | 52 | 7.75 | 7890 | 77.1 | 4857 | 1.107 | 540,585 | 12,871 | 13,608 | 324 | 500 | 12 | 382,077 | 9,097 | 554,693 | 13,207 | 23,600 | 212,000 | 235,600 |
| 20 | 7126 | 74.6 | 53 | 7.78 | 7820 | 75.5 | 4820 | 1.102 | 534,867 | 12,735 | 13,902 | 331 | 500 | 12 | 382,131 | 9,098 | 549,269 | 13,078 | 23,000 | 210,900 | 233,900 |
| 21 | 7066 | 70.7 | 53 | 7.70 | 8025 | 75.9 | 4694 | 1.084 | 537,436 | 12,796 | 12,726 | 303 | 500 | 12 | 384,062 | 9,144 | 550,662 | 13,111 | 23,500 | 211,000 | 234,500 |
| 22 | 7209 | 71.0 | 53 | 7.63 | 7930 | 73.4 | 4762 | 1.094 | 534,701 | 12,731 | 12,348 | 294 | 500 | 12 | 384,592 | 9,157 | 547,549 | 13,037 | 23,700 | 210,700 | 234,400 |
| 23 | 7366 | 75.0 | 52 | 7.78 | 7881 | 81.4 | 4725 | 1.089 | 534,640 | 12,730 | 15,834 | 377 | 500 | 12 | 383,097 | 9,121 | 550,974 | 13,118 | 23,200 | 209,000 | 232,200 |
| 24 | 7318 | 74.4 | 53 | 7.78 | 7931 | 80.0 | 4740 | 1.091 | 534,141 | 12,718 | 12,936 | 308 | 500 | 12 | 383,926 | 9,141 | 547,577 | 13,038 | 23,300 | 210,000 | 233,300 |
| 25 | 6976 | 71.2 | 53 | 7.78 | 7848 | 80.0 | 4764 | 1.094 | 534,417 | 12,724 | 14,028 | 334 | 500 | 12 | 385,019 | 9,167 | 548,945 | 13,070 | 23,600 | 208,000 | 231,600 |
| 26 | 6946 | 70.0 | 53 | 7.53 | 7840 | 80.2 | 4695 | 1.085 | 533,411 | 12,700 | 12,054 | 287 | 500 | 12 | 384,576 | 9,157 | 545,965 | 12,999 | 23,300 | 210,500 | 233,800 |
| 27 | 7386 | 68.0 | 53 | 7.91 | 7912 | 71.6 | 4841 | 1.105 | 548,201 | 13,052 | 12,432 | 296 | 500 | 12 | 382,753 | 9,113 | 561,133 | 13,360 | 23,900 | 205,600 | 229,500 |
| 28 | 7426 | 64.3 | 53 | 7.63 | 7886 | 72.0 | 4836 | 1.104 | 529,716 | 12,612 | 10,332 | 246 | 500 | 12 | 383,186 | 9,123 | 540,548 | 12,870 | 23,600 | 208,000 | 231,600 |
| 29 | 7412 | 64.5 | 55 | 7.63 | 7912 | 70.3 | 4864 | 1.108 | 471,549 | 11,227 | 10,206 | 243 | 500 | 12 | 384,000 | 9,143 | 482,255 | 11,482 | 23,400 | 211,000 | 234,400 |
| 30 | 6744 | 65.9 | 54 | 7.74 | 7875 | 70.5 | 4887 | 1.111 | 473,724 | 11,279 | 10,920 | 260 | 500 | 12 | 385,729 | 9,184 | 485,144 | 11,551 | 23,300 | 208,600 | 231,900 |
| 31 | 7340 | 63.4 | 52 | 7.64 | 7929 | 65.2 | 4917 | 1.115 | 458,445 | 10,915 | 12,306 | 293 | 500 | 12 | 373,673 | 8,897 | 471,251 | 11,220 | 23,600 | 208,500 | 232,100 |
| 32 | 7205 | 68.3 | 54 | 7.73 | 8025 | 71.9 | 4929 | 1.117 | 461,158 | 10,980 | 10,038 | 239 | 500 | 12 | 398,958 | 9,499 | 471,696 | 11,231 | 23,500 | 210,000 | 233,500 |
| 33 | 6923 | 64.4 | 52 | 7.77 | 7975 | 66.8 | 4907 | 1.114 | 462,475 | 11,011 | 7,518 | 179 | 500 | 12 | 399,163 | 9,504 | 470,493 | 11,202 | 23,700 | 207,600 | 231,300 |
| 34 | 7626 | 75.5 | 72 | 7.70 | 7804 | 80.3 | 4944 | 1.119 | 458,521 | 10,917 | 7,896 | 188 | 500 | 12 | 310,698 | 7,398 | 466,917 | 11,117 | 23,400 | 209,000 | 232,400 |
| 35 | 6975 | 72.7 | 53 | 7.75 | 7848 | 78.2 | 4765 | 1.094 | 478,078 | 11,383 | 8,106 | 193 | 500 | 12 | 312,721 | 7,446 | 486,684 | 11,588 | 23,300 | 210,500 | 233,800 |
| 36 | 7168 | 79.0 | 49 | 7.70 | 7714 | 82.6 | 4925 | 1.116 | 460,559 | 10,966 | 10,206 | 243 | 500 | 12 | 310,572 | 7,395 | 471,265 | 11,221 | 23,500 | 211,300 | 234,800 |
| 37 | 7038 | 76.1 | 54 | 7.60 | 7844 | 80.3 | 4950 | 1.120 | 455,852 | 10,854 | 6,048 | 144 | 250 | 6 | 309,470 | 7,368 | 462,150 | 11,004 | 23,300 | 212,000 | 235,300 |
| 38 | 7296 | 73.3 | 51 | 7.60 | 7833 | 77.4 | 4859 | 1.107 | 462,640 | 11,015 | 6,720 | 160 | 250 | 6 | 312,124 | 7,432 | 469,610 | 11,181 | 23,400 | 210,700 | 234,100 |
| 39 | 7351 | 73.6 | 52 | 7.59 | 7938 | 75.3 | 4937 | 1.118 | 460,080 | 10,954 | 6,258 | 149 | 250 | 6 | 310,800 | 7,400 | 466,588 | 11,109 | 23,200 | 212,500 | 235,700 |
| 40 | 7283 | 65.3 | 55 | 7.56 | 8078 | 77.4 | 5032 | 1.131 | 488,585 | 11,633 | 6,510 | 155 | 250 | 6 | 329,551 | 7,846 | 495,345 | 11,794 | 23,600 | 211,800 | 235,400 |
| 41 | 7324 | 67.9 | 51 | 7.68 | 7855 | 75.2 | 4861 | 1.108 | 461,544 | 10,989 | 7,560 | 180 | 500 | 12 | 311,862 | 7,425 | 469,604 | 11,181 | 23,600 | 210,200 | 233,800 |
| 42 | 7259 | 73.9 | 49 | 7.69 | 7852 | 80.4 | 5029 | 1.131 | 459,707 | 10,945 | 5,712 | 136 | 250 | 6 | 310,841 | 7,401 | 465,669 | 11,087 | 23,500 | 211,300 | 234,800 |
| 43 | 7203 | 66.7 | 55 | 7.45 | 7951 | 72.3 | 4974 | 1.123 | 457,064 | 10,882 | 6,812 | 162 | 250 | 6 | 309,946 | 7,380 | 464,126 | 11,051 | 23,100 | 211,000 | 234,100 |
| 44 | 7267 | 67.8 | 50 | 7.66 | 7874 | 70.3 | 4857 | 1.107 | 462,197 | 11,005 | 5,166 | 123 | 250 | 6 | 310,841 | 7,401 | 467,613 | 11,134 | 23,200 | 210,500 | 233,700 |
| 45 | 7407 | 70.4 | 52 | 7.61 | 7995 | 74.1 | 4925 | 1.116 | 456,653 | 10,873 | 4,620 | 110 | 250 | 6 | 308,954 | 7,356 | 461,523 | 10,989 | 23,500 | 210,100 | 233,600 |
| 46 | 7121 | 70.6 | 51 | 7.54 | 7982 | 75.3 | 4776 | 1.096 | 455,810 | 10,853 | 4,746 | 113 | 250 | 6 | 309,241 | 7,363 | 460,806 | 10,972 | 23,500 | 209,500 | 233,000 |
| 47 | 7514 | 69.3 | 52 | 7.56 | 7951 | 69.9 | 4932 | 1.117 | 467,040 | 11,120 | 4,074 | 97 | 250 | 6 | 320,382 | 7,628 | 471,364 | 11,223 | 23,600 | 210,800 | 234,400 |
| 48 | 7439 | 68.7 | 52 | 7.48 | 8059 | 71.6 | 4884 | 1.111 | 447,386 | 10,652 | 3,906 | 93 | 250 | 6 | 301,650 | 7,182 | 451,542 | 10,751 | 23,500 | 194,750 | 218,250 |
| 49 | 7537 | 66.9 | 49 | 7.52 | 8216 | 70.1 | 4870 | 1.109 | 456,868 | 10,878 | 3,360 | 80 | 250 | 6 | 311,213 | 7,410 | 460,478 | 10,964 | 23,450 | 209,000 | 232,450 |
| 50 | 7599 | 65.0 | 51 | 7.57 | 8242 | 69.0 | 4966 | 1.122 | 457,838 | 10,901 | 3,360 | 80 | 250 | 6 | 310,279 | 7,388 | 461,448 | 10,987 | 23,400 | 209,100 | 232,500 |
| 51 | 7687 | 69.6 | 51 | 7.51 | 8186 | 72.3 | 4816 | 1.101 | 456,292 | 10,864 | 2,478 | 59 | 250 | 6 | 309,817 | 7,377 | 459,020 | 10,929 | 23,400 | 209,400 | 232,800 |
| 52 | 7689 | 73.6 | 50 | 7.59 | 8192 | 75.4 | 4698 | 1.085 | 455,479 | 10,845 | 7,056 | 168 | 250 | 6 | 306,147 | 7,289 | 462,785 | 11,019 | 25,800 | 209,500 | 235,300 |
| 53 | 7057 | 65.6 | 51 | 7.62 | 8150 | 70.8 | 4685 | 1.083 | 459,846 | 10,949 | 0 | | 250 | 6 | 310,799 | 7,400 | 460,096 | 10,955 | 25,740 | 198,720 | 224,460 |

| Planned Recorded | Average | | | | Max | | ISIP | | FR Water | | Fresh Water | | Fluids | | Proppant Laden Fluid |
|---------------------|---------|--|--|--|-----|--|------|--|----------|--|-------------|--|--------|--|----------------------|
|---------------------|---------|--|--|--|-----|--|------|--|----------|--|-------------|--|--------|--|----------------------|

3.1 Procedure

3.1.1 Job Fluids

Slick Water

Job Volume: 28037000.0 (Gal)

| | | | | | |
|-------------------|-----------------------------------|----------------|-------------------------|--------------------------------------|----------------|
| Base Fluid | FRESH WATER 1000.00 (gal/Mgal) | 28037000 (Gal) | Friction Reducer | FIGHTR EC-1, BULK 0.50 (gal/Mgal) | 14019.00 (Gal) |
| Breaker | Optikleen-WF 0.50 (lbm/Mgal) | 14019.00 (lbm) | | | |

15% HCL Acid

Job Volume: 26500.0 (Gal)

| | | | | | |
|----------------------------|--------------------------------|--------------|-------------------|--------------------------------|-------------|
| Base Fluid | HCL ACID 1000.00 (gal/Mgal) | 26500 (Gal) | Surfactant | Losurf-300D 2.00 (gal/Mgal) | 53.00 (Gal) |
| Corrosion Inhibitor | HAI-404M 6.00 (gal/Mgal) | 159.00 (Gal) | | | |

3.1.2 Job Totals

Fluids

| | | | | | |
|------------------|-------------------|------------|---------------------|--------------|---------------|
| Friction Reducer | FIGHTR EC-1, BULK | 14019(Gal) | Breaker | Optikleen-WF | 14019.00(lbm) |
| Surfactant | Losurf-300D | 53(Gal) | Corrosion Inhibitor | HAI-404M | 159(Gal) |

Proppants

| | Designed Qty | Requested |
|------------------------------|----------------|---------------|
| Common White-100 Mesh, SSA-2 | 1240200 (lbm) | 1240200(lbm) |
| Premium White-30/50 | 11161800 (lbm) | 11161800(lbm) |

Customer Supplied Items

| | Designed Qty | Tank Bottom | Requested with Tank Bottom |
|-------------|----------------|-------------|----------------------------|
| FRESH WATER | 28037000 (Gal) | 0 (Gal) | 28037000(Gal) |