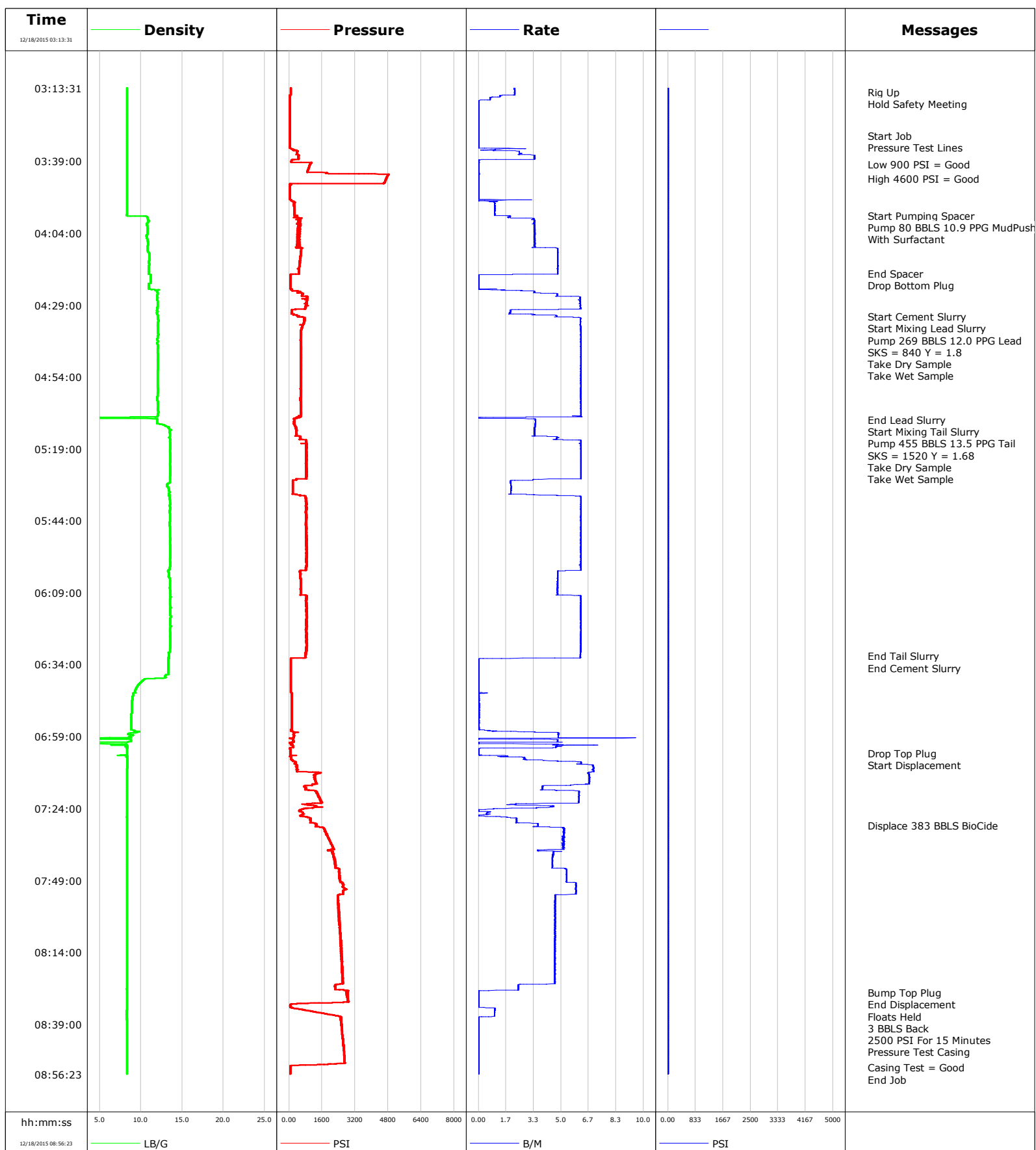


Well Wilson Ranch 5N-27HZ
Field Wattenberg
Engineer Conley Jensen/ Matt Leiker
Country United States

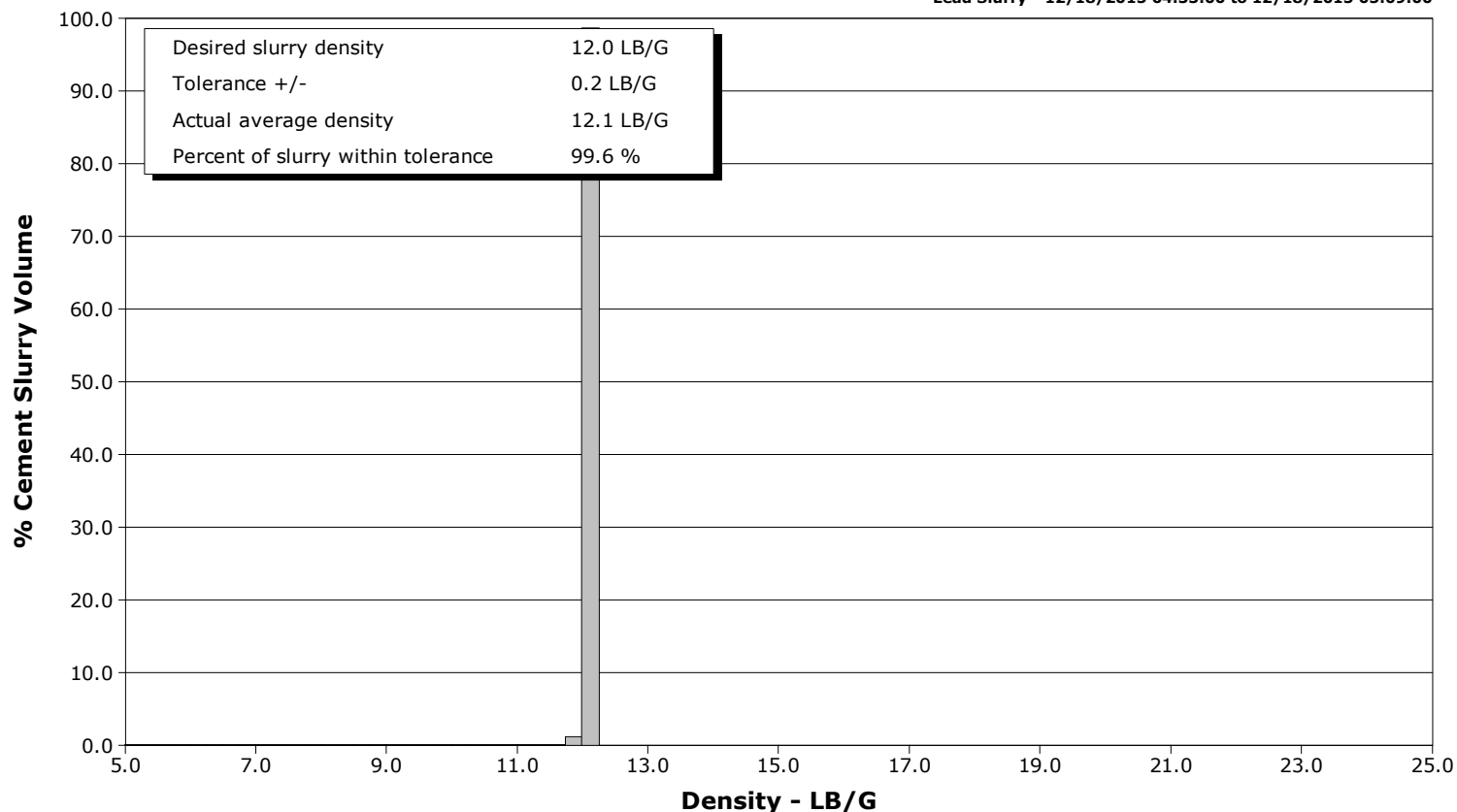
Client Anadarko
SIR No. 2172146
Job Type 5.5" Monobore
Job Date 12-18-2015



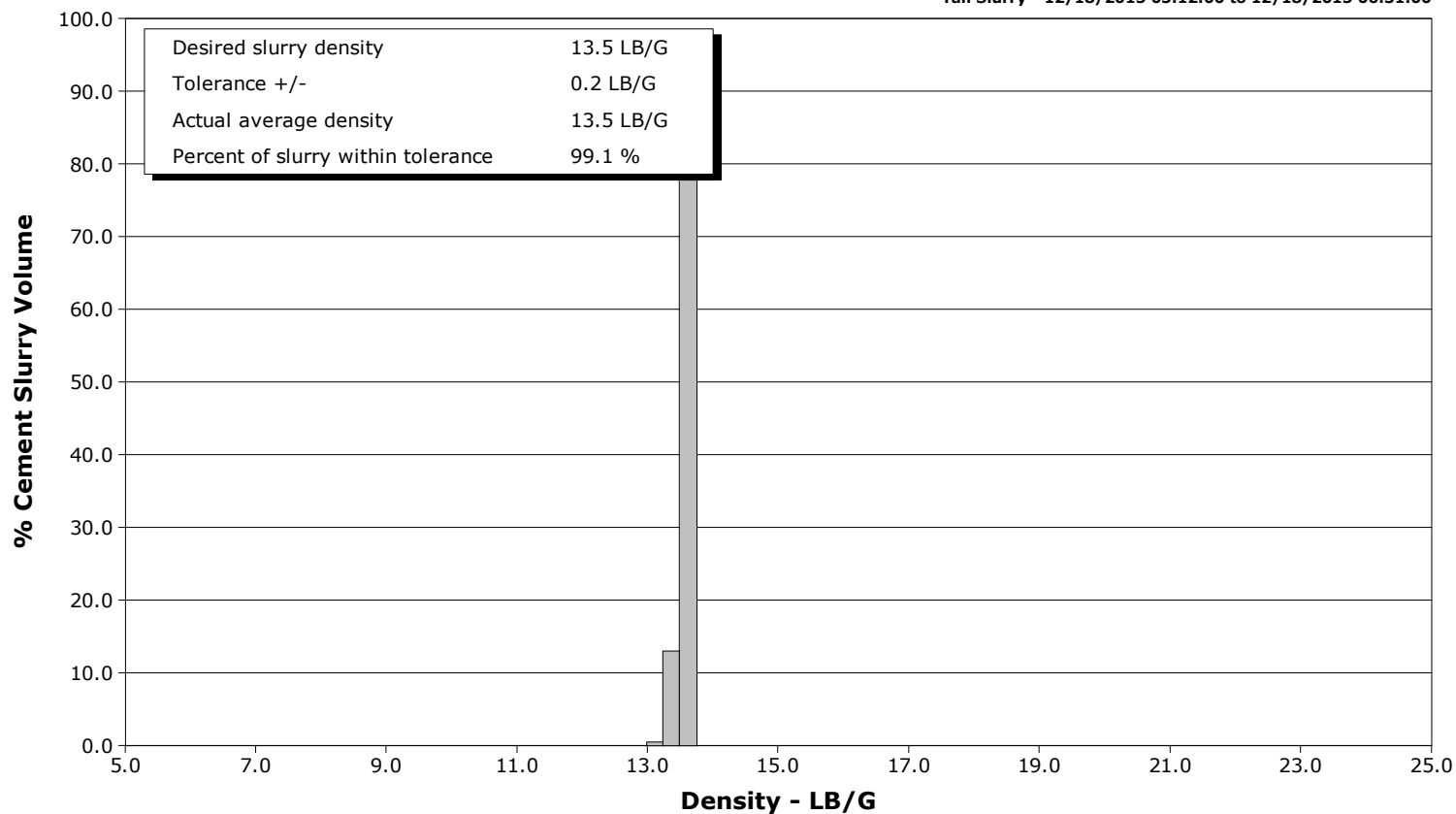
Well Wilson Ranch 5N-27HZ
Field Wattenberg
Engineer Conley Jensen/ Matt Leiker
Country United States

Client Anadarko
SIR No. 2172146
Job Type 5.5" Monobore
Job Date 12-18-2015

Lead Slurry - 12/18/2015 04:33:00 to 12/18/2015 05:09:00



Tail Slurry - 12/18/2015 05:12:00 to 12/18/2015 06:31:00



Cementing Service Report

| | | | | | | | | |
|---|--------------------------------|--|-------------------------|-------------------------------------|------------------------------|----------------------------|--------------------------------|------------------------|
| | | | | Customer Anadarko | | | Job Number 2172146 | |
| Well Wilson Ranch 5N-27HZ 5N-27HZ | | | Location (legal) CWY | | Schlumberger Location CWY | | Job Start Dec/18/2015 | |
| Field Wattenberg | | Formation Name/Type Shale | | Deviation deg | Bit Size 8.5 in | Well MD 16574.0 ft | | Well TVD 7192.0 ft |
| County Weld | | State/Province Colorado | | BHP psi | BHST 233 degF | BHCT 232 degF | Pore Press. Gradient lb/gal | |
| Well Master 0631629522 | | API/UWI 05123412970000 | | | | | | |
| Rig Name Precision 462 | Drilled For Oil | Service Via Land | | Casing/ Liner | | | | |
| | | | | Depth, ft | Size, in | Weight, lb/ft | Grade | Thread |
| Offshore Zone | Well Class New | Well Type Development | | 1843.0 | 9.6 | 36.0 | J55 | 8RD |
| | | | | 16574.0 | 5.5 | 17.0 | P110 | 8RD |
| Drilling Fluid Type | | Max. Density lb/gal | Plastic Viscosity cP | | Tubing/Drill Pipe | | | |
| | | | | | T/D | Depth, ft | Size, in | Weight, lb/ft |
| | | | | | | | | |
| Service Line Cementing | Job Type 5.5" Monobore | | | | | | | |
| | | | | | | | | |
| Max. Allowed Tub. Press psi | Max. Allowed Ann. Press psi | WH Connection Double Cement head | | Perforations/Open Hole | | | | |
| | | | | Top, ft | Bottom, ft | shot/ft | No. of Shots | Total Interval |
| | | | | ft | ft | | | ft |
| | | | | ft | ft | | | Diameter |
| | | | | ft | ft | | | in |
| | | | | Treat Down Casing | Displacement 383.0 bbl | Packer Type | Packer Depth ft | |
| | | | | Tubing Vol. bbl | Casing Vol. 385.0 bbl | Annular Vol. 689.0 bbl | Openhole Vol. 1088.0 bbl | |
| Casing/Tubing Secured <input checked="" type="checkbox"/> | | 1 Hole Vol. Circulated prior to Cement <input checked="" type="checkbox"/> | | Casing Tools | | | Squeeze Job | |
| Lift Pressure psi | | | | Shoe Type Float | | | Squeeze Type | |
| Pipe Rotated <input type="checkbox"/> | | Pipe Reciprocated <input type="checkbox"/> | | Shoe Depth 16574.0 ft | | | Tool Type | |
| No. Centralizers | | Top Plugs 1 | Bottom Plugs 1 | Stage Tool Type | | | Tool Depth ft | |
| Cement Head Type Double | | | | Stage Tool Depth ft | | | Tail Pipe Size in | |
| Job Scheduled For Dec/17/2015 17:30 | | Arrived on Location Dec/17/2015 17:30 | | Leave Location Dec/18/2015 11:00 | | Collar Type Float | | Tail Pipe Depth ft |
| | | | | | | Collar Depth 16482.0 ft | | Sqz. Total Vol. bbl |
| Date | Time 24-hr clock | Treating Pressure PSI | Flow Rate B/M | Density LB/G | Volume BBL | Message | | |
| 12/18/2015 | 03:13:31 | 92 | 2.2 | 8.31 | 0.0 | Started Acquisition | | |
| 12/18/2015 | 03:15:00 | 92 | 2.2 | 8.31 | 3.2 | Rig Up | | |
| 12/18/2015 | 03:15:01 | 91 | 2.2 | 8.30 | 3.3 | | | |
| 12/18/2015 | 03:16:00 | 78 | 2.2 | 8.30 | 5.4 | Hold Safety Meeting | | |
| 12/18/2015 | 03:16:31 | 58 | 1.3 | 8.31 | 6.2 | | | |
| 12/18/2015 | 03:18:01 | 21 | 0.0 | 8.31 | 0.1 | | | |
| 12/18/2015 | 03:19:31 | 9 | 0.0 | 8.31 | 0.1 | | | |
| 12/18/2015 | 03:21:01 | 9 | 0.0 | 8.31 | 0.1 | | | |
| 12/18/2015 | 03:22:31 | 9 | 0.0 | 8.31 | 0.1 | | | |
| 12/18/2015 | 03:24:01 | 9 | 0.0 | 8.31 | 0.1 | | | |
| 12/18/2015 | 03:25:31 | 9 | 0.0 | 8.31 | 0.1 | | | |
| 12/18/2015 | 03:27:01 | 10 | 0.0 | 8.31 | 0.1 | | | |
| 12/18/2015 | 03:28:31 | 10 | 0.0 | 8.31 | 0.1 | | | |
| 12/18/2015 | 03:30:00 | 10 | 0.0 | 8.31 | 0.1 | Start Job | | |
| 12/18/2015 | 03:30:01 | 11 | 0.0 | 8.31 | 0.1 | | | |
| 12/18/2015 | 03:31:31 | 13 | 0.0 | 8.32 | 0.1 | | | |
| 12/18/2015 | 03:33:00 | 12 | 0.0 | 8.32 | 0.1 | Pressure Test Lines | | |
| 12/18/2015 | 03:33:01 | 12 | 0.0 | 8.32 | 0.1 | | | |
| 12/18/2015 | 03:34:31 | 55 | 0.8 | 8.32 | 0.1 | | | |
| 12/18/2015 | 03:36:01 | 371 | 2.5 | 8.31 | 2.7 | | | |
| 12/18/2015 | 03:37:31 | 479 | 3.4 | 8.30 | 7.1 | | | |

| Well | | | Field | Job Start | | Customer | Job Number |
|------------------------------|------------------------|-----------------------------|---------------------|-----------------|---------------|-------------------------------|------------|
| Wilson Ranch 5N-27HZ 5N-27HZ | | | Wattenberg | Dec/18/2015 | | Anadarko | 2172146 |
| Date | Time 24-hr clock | Treating Pressure PSI | Flow Rate B/M | Density LB/G | Volume BBL | Message | |
| 12/18/2015 | 03:40:00 | 1009 | 0.0 | 8.30 | 10.2 | Low 900 PSI = Good | |
| 12/18/2015 | 03:40:31 | 974 | 0.0 | 8.30 | 10.2 | | |
| 12/18/2015 | 03:42:01 | 900 | 0.0 | 8.30 | 10.2 | | |
| 12/18/2015 | 03:43:31 | 4822 | 0.0 | 8.30 | 10.2 | | |
| 12/18/2015 | 03:45:00 | 4686 | 0.0 | 8.30 | 10.2 | High 4600 PSI = Good | |
| 12/18/2015 | 03:45:01 | 4685 | 0.0 | 8.30 | 10.2 | | |
| 12/18/2015 | 03:46:31 | 4603 | 0.0 | 8.30 | 10.2 | | |
| 12/18/2015 | 03:48:01 | 22 | 0.0 | 8.30 | 0.0 | | |
| 12/18/2015 | 03:49:31 | 17 | 0.0 | 8.30 | 0.0 | | |
| 12/18/2015 | 03:51:01 | 18 | 0.0 | 8.30 | 0.0 | | |
| 12/18/2015 | 03:52:31 | 93 | 1.9 | 8.30 | 0.4 | | |
| 12/18/2015 | 03:54:01 | 241 | 1.0 | 8.30 | 1.6 | | |
| 12/18/2015 | 03:55:31 | 269 | 1.0 | 8.29 | 3.1 | | |
| 12/18/2015 | 03:57:01 | 273 | 1.0 | 8.29 | 4.6 | | |
| 12/18/2015 | 03:58:00 | 344 | 1.9 | 8.36 | 0.4 | Start Pumping Spacer | |
| 12/18/2015 | 03:58:31 | 314 | 1.8 | 10.79 | 1.4 | | |
| 12/18/2015 | 03:59:00 | 529 | 3.4 | 10.84 | 2.6 | Pump 80 BBLs 10.9 PPG MudPush | |
| 12/18/2015 | 04:00:00 | 471 | 3.4 | 10.93 | 6.0 | With Surfactant | |
| 12/18/2015 | 04:00:01 | 488 | 3.4 | 10.92 | 6.1 | | |
| 12/18/2015 | 04:01:31 | 454 | 3.4 | 10.76 | 11.1 | | |
| 12/18/2015 | 04:03:01 | 557 | 3.4 | 10.84 | 16.2 | | |
| 12/18/2015 | 04:04:31 | 424 | 3.4 | 10.76 | 21.4 | | |
| 12/18/2015 | 04:06:01 | 421 | 3.4 | 10.78 | 26.5 | | |
| 12/18/2015 | 04:07:31 | 524 | 3.4 | 10.88 | 31.6 | | |
| 12/18/2015 | 04:09:01 | 541 | 3.8 | 10.82 | 36.7 | | |
| 12/18/2015 | 04:10:31 | 608 | 4.8 | 10.89 | 43.8 | | |
| 12/18/2015 | 04:12:01 | 590 | 4.8 | 11.00 | 51.0 | | |
| 12/18/2015 | 04:13:31 | 568 | 4.8 | 11.04 | 58.3 | | |
| 12/18/2015 | 04:15:01 | 552 | 4.8 | 11.01 | 65.5 | | |
| 12/18/2015 | 04:16:31 | 499 | 4.8 | 10.96 | 72.7 | | |
| 12/18/2015 | 04:18:00 | 486 | 4.8 | 10.98 | 79.8 | End Spacer | |
| 12/18/2015 | 04:18:01 | 488 | 4.8 | 10.98 | 79.9 | | |
| 12/18/2015 | 04:19:00 | 68 | 0.0 | 11.21 | 0.0 | Drop Bottom Plug | |
| 12/18/2015 | 04:19:31 | 61 | 0.0 | 11.21 | 0.0 | | |
| 12/18/2015 | 04:21:01 | 56 | 0.0 | 11.22 | 0.0 | | |
| 12/18/2015 | 04:22:31 | 53 | 0.0 | 10.98 | 0.0 | | |
| 12/18/2015 | 04:24:01 | 169 | 2.6 | 11.87 | 0.7 | | |
| 12/18/2015 | 04:25:31 | 656 | 4.8 | 12.00 | 6.6 | | |
| 12/18/2015 | 04:27:01 | 871 | 6.2 | 11.98 | 15.2 | | |
| 12/18/2015 | 04:28:31 | 825 | 6.2 | 12.06 | 24.4 | | |
| 12/18/2015 | 04:30:01 | 801 | 6.2 | 12.01 | 33.7 | | |
| 12/18/2015 | 04:31:31 | 132 | 1.9 | 11.98 | 38.9 | | |
| 12/18/2015 | 04:33:00 | 497 | 4.7 | 12.05 | 43.7 | Start Cement Slurry | |
| 12/18/2015 | 04:33:01 | 497 | 4.7 | 12.05 | 43.8 | | |
| 12/18/2015 | 04:34:31 | 714 | 6.2 | 12.14 | 52.7 | | |
| 12/18/2015 | 04:36:01 | 651 | 6.2 | 12.05 | 62.0 | | |
| 12/18/2015 | 04:37:31 | 583 | 6.2 | 12.07 | 71.3 | | |
| 12/18/2015 | 04:39:01 | 574 | 6.2 | 12.11 | 80.6 | | |
| 12/18/2015 | 04:40:00 | 564 | 6.2 | 12.02 | 86.7 | Pump 269 BBLs 12.0 PPG Lead | |
| 12/18/2015 | 04:40:31 | 558 | 6.2 | 12.01 | 89.9 | | |
| 12/18/2015 | 04:41:00 | 566 | 6.2 | 12.00 | 92.9 | SKS = 840 Y = 1.8 | |
| 12/18/2015 | 04:42:00 | 577 | 6.2 | 12.01 | 99.1 | Take Dry Sample | |
| 12/18/2015 | 04:42:01 | 577 | 6.2 | 12.01 | 99.2 | | |
| 12/18/2015 | 04:43:31 | 573 | 6.2 | 12.08 | 108.5 | | |

| Well | | | Field | Job Start | | Customer | | Job Number | |
|------------------------------|------------------------|-----------------------------|---------------------|-----------------|---------------|-----------------------------|----------|------------|---------|
| Wilson Ranch 5N-27HZ 5N-27HZ | | | Wattenberg | | Dec/18/2015 | | Anadarko | | 2172146 |
| Date | Time 24-hr clock | Treating Pressure PSI | Flow Rate B/M | Density LB/G | Volume BBL | Message | | | |
| 12/18/2015 | 04:46:00 | 578 | 6.2 | 12.07 | 123.9 | Take Wet Sample | | | |
| 12/18/2015 | 04:46:31 | 574 | 6.2 | 12.08 | 127.2 | | | | |
| 12/18/2015 | 04:48:01 | 577 | 6.2 | 12.06 | 136.5 | | | | |
| 12/18/2015 | 04:49:31 | 573 | 6.2 | 12.09 | 145.8 | | | | |
| 12/18/2015 | 04:51:01 | 572 | 6.2 | 12.08 | 155.1 | | | | |
| 12/18/2015 | 04:52:31 | 561 | 6.2 | 12.02 | 164.4 | | | | |
| 12/18/2015 | 04:54:01 | 577 | 6.2 | 12.05 | 173.7 | | | | |
| 12/18/2015 | 04:55:31 | 564 | 6.2 | 12.03 | 183.0 | | | | |
| 12/18/2015 | 04:57:01 | 574 | 6.2 | 12.05 | 192.3 | | | | |
| 12/18/2015 | 04:58:31 | 570 | 6.2 | 12.07 | 201.6 | | | | |
| 12/18/2015 | 05:00:01 | 573 | 6.2 | 12.04 | 210.9 | | | | |
| 12/18/2015 | 05:01:31 | 575 | 6.2 | 11.99 | 220.2 | | | | |
| 12/18/2015 | 05:03:01 | 568 | 6.2 | 12.05 | 229.5 | | | | |
| 12/18/2015 | 05:04:31 | 572 | 6.2 | 12.08 | 238.8 | | | | |
| 12/18/2015 | 05:06:01 | 582 | 6.2 | 12.12 | 248.1 | | | | |
| 12/18/2015 | 05:07:31 | 588 | 6.2 | 12.06 | 257.4 | | | | |
| 12/18/2015 | 05:09:00 | 253 | 3.4 | 11.98 | 262.2 | End Lead Slurry | | | |
| 12/18/2015 | 05:09:01 | 248 | 3.4 | 11.98 | 262.2 | | | | |
| 12/18/2015 | 05:10:31 | 240 | 3.4 | 12.58 | 267.4 | | | | |
| 12/18/2015 | 05:12:00 | 333 | 3.4 | 13.43 | 1.2 | Start Mixing Tail Slurry | | | |
| 12/18/2015 | 05:12:01 | 333 | 3.4 | 13.44 | 1.3 | | | | |
| 12/18/2015 | 05:13:31 | 337 | 3.4 | 13.52 | 6.4 | | | | |
| 12/18/2015 | 05:14:00 | 326 | 3.4 | 13.54 | 8.0 | Pump 455 BBLs 13.5 PPG Tail | | | |
| 12/18/2015 | 05:15:01 | 530 | 4.8 | 13.46 | 12.0 | | | | |
| 12/18/2015 | 05:16:00 | 809 | 6.2 | 13.56 | 16.8 | SKS = 1520 Y = 1.68 | | | |
| 12/18/2015 | 05:16:31 | 825 | 6.2 | 13.55 | 20.0 | | | | |
| 12/18/2015 | 05:17:00 | 816 | 6.2 | 13.58 | 23.0 | Take Dry Sample | | | |
| 12/18/2015 | 05:18:01 | 817 | 6.2 | 13.58 | 29.3 | | | | |
| 12/18/2015 | 05:19:00 | 815 | 6.2 | 13.56 | 35.4 | Take Wet Sample | | | |
| 12/18/2015 | 05:19:31 | 805 | 6.2 | 13.55 | 38.6 | | | | |
| 12/18/2015 | 05:21:01 | 836 | 6.2 | 13.58 | 47.9 | | | | |
| 12/18/2015 | 05:22:31 | 809 | 6.2 | 13.58 | 57.2 | | | | |
| 12/18/2015 | 05:24:01 | 808 | 6.2 | 13.56 | 66.5 | | | | |
| 12/18/2015 | 05:25:31 | 821 | 6.2 | 13.57 | 75.8 | | | | |
| 12/18/2015 | 05:27:01 | 813 | 6.2 | 13.59 | 85.1 | | | | |
| 12/18/2015 | 05:28:31 | 837 | 6.2 | 13.55 | 94.4 | | | | |
| 12/18/2015 | 05:30:01 | 180 | 2.0 | 13.54 | 102.3 | | | | |
| 12/18/2015 | 05:31:31 | 170 | 2.0 | 13.20 | 105.2 | | | | |
| 12/18/2015 | 05:33:01 | 161 | 2.0 | 13.39 | 108.2 | | | | |
| 12/18/2015 | 05:34:31 | 171 | 2.0 | 13.43 | 111.1 | | | | |
| 12/18/2015 | 05:36:01 | 789 | 6.2 | 13.47 | 118.0 | | | | |
| 12/18/2015 | 05:37:31 | 811 | 6.2 | 13.52 | 127.3 | | | | |
| 12/18/2015 | 05:39:01 | 795 | 6.2 | 13.53 | 136.6 | | | | |
| 12/18/2015 | 05:40:31 | 803 | 6.2 | 13.51 | 145.9 | | | | |
| 12/18/2015 | 05:42:01 | 802 | 6.2 | 13.56 | 155.2 | | | | |
| 12/18/2015 | 05:43:31 | 816 | 6.2 | 13.53 | 164.5 | | | | |
| 12/18/2015 | 05:45:01 | 794 | 6.2 | 13.50 | 173.8 | | | | |
| 12/18/2015 | 05:46:31 | 817 | 6.2 | 13.54 | 183.1 | | | | |
| 12/18/2015 | 05:48:01 | 801 | 6.2 | 13.53 | 192.4 | | | | |
| 12/18/2015 | 05:49:31 | 819 | 6.2 | 13.54 | 201.8 | | | | |
| 12/18/2015 | 05:51:01 | 804 | 6.2 | 13.56 | 211.1 | | | | |
| 12/18/2015 | 05:52:31 | 813 | 6.2 | 13.57 | 220.4 | | | | |
| 12/18/2015 | 05:54:01 | 824 | 6.2 | 13.59 | 229.7 | | | | |
| 12/18/2015 | 05:55:31 | 833 | 6.2 | 13.59 | 239.0 | | | | |

| Well Wilson Ranch 5N-27HZ 5N-27HZ | | | Field Wattenberg | | Job Start Dec/18/2015 | | Customer Anadarko | | Job Number 2172146 | |
|--------------------------------------|------------------------|-----------------------------|---------------------|---------------------|--------------------------|--|----------------------|-----------------|-----------------------|--|
| Date | Time 24-hr clock | Treating Pressure PSI | | Flow Rate B/M | Density LB/G | | Volume BBL | | Message | |
| 12/18/2015 | 05:58:31 | 818 | | 6.2 | 13.58 | | 257.6 | | | |
| 12/18/2015 | 06:00:01 | 805 | | 6.2 | 13.54 | | 266.9 | | | |
| 12/18/2015 | 06:01:31 | 516 | | 4.8 | 13.28 | | 276.0 | | | |
| 12/18/2015 | 06:03:01 | 540 | | 4.8 | 13.41 | | 283.2 | | | |
| 12/18/2015 | 06:04:31 | 562 | | 4.8 | 13.53 | | 290.4 | | | |
| 12/18/2015 | 06:06:01 | 571 | | 4.8 | 13.52 | | 297.6 | | | |
| 12/18/2015 | 06:07:31 | 542 | | 4.8 | 13.52 | | 304.8 | | | |
| 12/18/2015 | 06:09:01 | 571 | | 4.8 | 13.57 | | 312.0 | | | |
| 12/18/2015 | 06:10:31 | 827 | | 6.2 | 13.62 | | 320.0 | | | |
| 12/18/2015 | 06:12:01 | 802 | | 6.2 | 13.53 | | 329.3 | | | |
| 12/18/2015 | 06:13:31 | 804 | | 6.2 | 13.57 | | 338.6 | | | |
| 12/18/2015 | 06:15:01 | 812 | | 6.2 | 13.58 | | 347.9 | | | |
| 12/18/2015 | 06:16:31 | 828 | | 6.2 | 13.60 | | 357.2 | | | |
| 12/18/2015 | 06:18:01 | 816 | | 6.2 | 13.60 | | 366.5 | | | |
| 12/18/2015 | 06:19:31 | 825 | | 6.2 | 13.58 | | 375.8 | | | |
| 12/18/2015 | 06:21:01 | 821 | | 6.2 | 13.59 | | 385.1 | | | |
| 12/18/2015 | 06:22:31 | 811 | | 6.2 | 13.54 | | 394.4 | | | |
| 12/18/2015 | 06:24:01 | 820 | | 6.2 | 13.56 | | 403.7 | | | |
| 12/18/2015 | 06:25:31 | 842 | | 6.2 | 13.59 | | 413.0 | | | |
| 12/18/2015 | 06:27:01 | 833 | | 6.2 | 13.61 | | 422.3 | | | |
| 12/18/2015 | 06:28:31 | 818 | | 6.2 | 13.54 | | 431.6 | | | |
| 12/18/2015 | 06:30:01 | 754 | | 6.2 | 13.42 | | 440.9 | | | |
| 12/18/2015 | 06:31:00 | 742 | | 6.2 | 13.42 | | 446.9 | End Tail Slurry | | |
| 12/18/2015 | 06:31:31 | 757 | | 6.2 | 13.38 | | 450.1 | | | |
| 12/18/2015 | 06:33:01 | 37 | | 0.0 | 13.37 | | 0.0 | | | |
| 12/18/2015 | 06:34:31 | 37 | | 0.0 | 13.36 | | 0.0 | | | |
| 12/18/2015 | 06:36:01 | 37 | | 0.0 | 13.36 | | 0.0 | | | |
| 12/18/2015 | 06:37:31 | 36 | | 0.0 | 13.26 | | 0.0 | | | |
| 12/18/2015 | 06:39:01 | 61 | | 0.0 | 10.47 | | 0.0 | | | |
| 12/18/2015 | 06:40:31 | 60 | | 0.0 | 9.88 | | 0.0 | | | |
| 12/18/2015 | 06:42:01 | 61 | | 0.0 | 9.48 | | 0.0 | | | |
| 12/18/2015 | 06:43:31 | 61 | | 0.0 | 9.27 | | 0.0 | | | |
| 12/18/2015 | 06:45:01 | 98 | | 0.0 | 9.01 | | 0.1 | | | |
| 12/18/2015 | 06:46:31 | 97 | | 0.0 | 8.95 | | 0.2 | | | |
| 12/18/2015 | 06:48:01 | 94 | | 0.1 | 8.92 | | 0.2 | | | |
| 12/18/2015 | 06:49:31 | 92 | | 0.0 | 8.90 | | 0.3 | | | |
| 12/18/2015 | 06:51:01 | 91 | | 0.0 | 8.89 | | 0.3 | | | |
| 12/18/2015 | 06:52:31 | 90 | | 0.0 | 8.88 | | 0.3 | | | |
| 12/18/2015 | 06:54:01 | 89 | | 0.0 | 8.86 | | 0.4 | | | |
| 12/18/2015 | 06:55:31 | 87 | | 0.0 | 8.85 | | 0.4 | | | |
| 12/18/2015 | 06:57:01 | 55 | | 0.7 | 9.17 | | 0.6 | | | |
| 12/18/2015 | 06:58:31 | 299 | | 4.8 | 9.06 | | 6.3 | | | |
| 12/18/2015 | 07:00:01 | 278 | | 4.0 | 8.24 | | 11.9 | | | |
| 12/18/2015 | 07:01:31 | 199 | | 0.0 | -0.05 | | 16.7 | | | |
| 12/18/2015 | 07:03:01 | 45 | | 1.5 | 8.27 | | 23.7 | | | |
| 12/18/2015 | 07:04:31 | 66 | | 0.0 | 8.34 | | 23.8 | | | |
| 12/18/2015 | 07:05:00 | 44 | | 0.0 | 8.34 | | 23.8 | Drop Top Plug | | |
| 12/18/2015 | 07:06:01 | 60 | | 1.3 | 8.33 | | 0.6 | | | |
| 12/18/2015 | 07:07:31 | 223 | | 4.8 | 8.36 | | 5.1 | | | |
| 12/18/2015 | 07:09:01 | 413 | | 7.0 | 8.37 | | 14.3 | | | |
| 12/18/2015 | 07:10:31 | 433 | | 6.9 | 8.34 | | 24.8 | | | |
| 12/18/2015 | 07:12:01 | 1332 | | 6.7 | 8.34 | | 35.0 | | | |
| 12/18/2015 | 07:13:31 | 1255 | | 6.7 | 8.34 | | 45.1 | | | |
| 12/18/2015 | 07:15:01 | 1324 | | 6.7 | 8.34 | | 55.2 | | | |

| Well Wilson Ranch 5N-27HZ 5N-27HZ | | | Field Wattenberg | | Job Start Dec/18/2015 | | Customer Anadarko | | Job Number 2172146 | |
|--------------------------------------|------------------------|-----------------------------|---------------------|-----------------|--------------------------|---------------------------|----------------------|--|-----------------------|--|
| Date | Time 24-hr clock | Treating Pressure PSI | Flow Rate B/M | Density LB/G | Volume BBL | Message | | | | |
| 12/18/2015 | 07:18:01 | 1317 | 6.1 | 8.34 | 70.0 | | | | | |
| 12/18/2015 | 07:19:31 | 1410 | 6.1 | 8.34 | 79.2 | | | | | |
| 12/18/2015 | 07:21:01 | 1528 | 6.1 | 8.34 | 88.3 | | | | | |
| 12/18/2015 | 07:22:31 | 837 | 2.2 | 8.34 | 96.5 | | | | | |
| 12/18/2015 | 07:24:01 | 829 | 1.3 | 8.34 | 101.9 | | | | | |
| 12/18/2015 | 07:25:31 | 681 | 0.5 | 8.34 | 102.6 | | | | | |
| 12/18/2015 | 07:27:01 | 861 | 1.6 | 8.33 | 103.3 | | | | | |
| 12/18/2015 | 07:28:31 | 1050 | 2.3 | 8.34 | 106.6 | | | | | |
| 12/18/2015 | 07:30:00 | 1338 | 3.6 | 8.34 | 111.1 | Displace 383 BBLs BioCide | | | | |
| 12/18/2015 | 07:30:01 | 1327 | 3.6 | 8.34 | 111.2 | | | | | |
| 12/18/2015 | 07:31:31 | 1749 | 5.2 | 8.34 | 118.2 | | | | | |
| 12/18/2015 | 07:33:01 | 1847 | 5.2 | 8.34 | 125.9 | | | | | |
| 12/18/2015 | 07:34:31 | 1934 | 5.1 | 8.34 | 133.7 | | | | | |
| 12/18/2015 | 07:36:01 | 2050 | 5.2 | 8.34 | 141.4 | | | | | |
| 12/18/2015 | 07:37:31 | 2142 | 5.1 | 8.34 | 149.2 | | | | | |
| 12/18/2015 | 07:39:01 | 2109 | 4.7 | 8.34 | 156.1 | | | | | |
| 12/18/2015 | 07:40:31 | 2197 | 4.5 | 8.34 | 162.9 | | | | | |
| 12/18/2015 | 07:42:01 | 2244 | 4.5 | 8.34 | 169.6 | | | | | |
| 12/18/2015 | 07:43:31 | 2275 | 4.5 | 8.34 | 176.4 | | | | | |
| 12/18/2015 | 07:45:01 | 2444 | 5.3 | 8.34 | 183.3 | | | | | |
| 12/18/2015 | 07:46:31 | 2480 | 5.3 | 8.34 | 191.3 | | | | | |
| 12/18/2015 | 07:48:01 | 2482 | 5.4 | 8.33 | 199.3 | | | | | |
| 12/18/2015 | 07:49:31 | 2547 | 5.3 | 8.33 | 207.3 | | | | | |
| 12/18/2015 | 07:51:01 | 2659 | 5.9 | 8.33 | 216.1 | | | | | |
| 12/18/2015 | 07:52:31 | 2687 | 5.9 | 8.33 | 224.9 | | | | | |
| 12/18/2015 | 07:54:01 | 2457 | 4.8 | 8.33 | 233.7 | | | | | |
| 12/18/2015 | 07:55:31 | 2416 | 4.7 | 8.33 | 240.7 | | | | | |
| 12/18/2015 | 07:57:01 | 2407 | 4.6 | 8.33 | 247.7 | | | | | |
| 12/18/2015 | 07:58:31 | 2416 | 4.6 | 8.33 | 254.7 | | | | | |
| 12/18/2015 | 08:00:01 | 2441 | 4.7 | 8.33 | 261.6 | | | | | |
| 12/18/2015 | 08:01:31 | 2460 | 4.6 | 8.32 | 268.6 | | | | | |
| 12/18/2015 | 08:03:01 | 2452 | 4.6 | 8.32 | 275.6 | | | | | |
| 12/18/2015 | 08:04:31 | 2474 | 4.6 | 8.32 | 282.5 | | | | | |
| 12/18/2015 | 08:06:01 | 2502 | 4.6 | 8.32 | 289.5 | | | | | |
| 12/18/2015 | 08:07:31 | 2526 | 4.6 | 8.32 | 296.5 | | | | | |
| 12/18/2015 | 08:09:01 | 2535 | 4.6 | 8.32 | 303.4 | | | | | |
| 12/18/2015 | 08:10:31 | 2545 | 4.6 | 8.32 | 310.4 | | | | | |
| 12/18/2015 | 08:12:01 | 2543 | 4.6 | 8.32 | 317.4 | | | | | |
| 12/18/2015 | 08:13:31 | 2589 | 4.6 | 8.31 | 324.3 | | | | | |
| 12/18/2015 | 08:15:01 | 2581 | 4.6 | 8.31 | 331.3 | | | | | |
| 12/18/2015 | 08:16:31 | 2604 | 4.6 | 8.31 | 338.2 | | | | | |
| 12/18/2015 | 08:18:01 | 2596 | 4.6 | 8.30 | 345.2 | | | | | |
| 12/18/2015 | 08:19:31 | 2612 | 4.6 | 8.30 | 352.2 | | | | | |
| 12/18/2015 | 08:21:01 | 2618 | 4.6 | 8.30 | 359.1 | | | | | |
| 12/18/2015 | 08:22:31 | 2643 | 4.6 | 8.30 | 366.1 | | | | | |
| 12/18/2015 | 08:24:01 | 2607 | 4.6 | 8.30 | 373.0 | | | | | |
| 12/18/2015 | 08:25:31 | 2254 | 2.4 | 8.30 | 379.1 | | | | | |
| 12/18/2015 | 08:27:01 | 2483 | 2.4 | 8.29 | 382.8 | | | | | |
| 12/18/2015 | 08:28:00 | 2868 | 0.0 | 8.30 | 383.5 | Bump Top Plug | | | | |
| 12/18/2015 | 08:28:31 | 2833 | 0.0 | 8.30 | 383.5 | | | | | |
| 12/18/2015 | 08:30:01 | 2853 | 0.0 | 8.30 | 383.5 | | | | | |
| 12/18/2015 | 08:31:00 | 2898 | 0.0 | 8.30 | 383.5 | Floats Held | | | | |
| 12/18/2015 | 08:31:31 | 2243 | 0.0 | 8.30 | 383.5 | | | | | |
| 12/18/2015 | 08:33:01 | 56 | 0.0 | 8.30 | 383.5 | | | | | |

| Well | | | Field | | Job Start | Customer | | Job Number |
|------------------------------|------------------|-----------------------|---------------|--------------|-------------|-------------------------|--|------------|
| Wilson Ranch 5N-27HZ 5N-27HZ | | | Wattenberg | | Dec/18/2015 | Anadarko | | 2172146 |
| Date | Time 24-hr clock | Treating Pressure PSI | Flow Rate B/M | Density LB/G | Volume BBL | Message | | |
| 12/18/2015 | 08:36:01 | 2276 | 1.0 | 8.29 | 386.1 | | | |
| 12/18/2015 | 08:37:00 | 2525 | 0.0 | 8.29 | 386.5 | 2500 PSI For 15 Minutes | | |
| 12/18/2015 | 08:37:31 | 2515 | 0.0 | 8.29 | 386.5 | | | |
| 12/18/2015 | 08:39:01 | 2533 | 0.0 | 8.29 | 386.5 | | | |
| 12/18/2015 | 08:40:31 | 2554 | 0.0 | 8.30 | 386.5 | | | |
| 12/18/2015 | 08:42:01 | 2572 | 0.0 | 8.30 | 386.5 | | | |
| 12/18/2015 | 08:43:31 | 2598 | 0.0 | 8.30 | 386.5 | | | |
| 12/18/2015 | 08:45:01 | 2619 | 0.0 | 8.30 | 386.5 | | | |
| 12/18/2015 | 08:46:31 | 2639 | 0.0 | 8.30 | 386.5 | | | |
| 12/18/2015 | 08:48:01 | 2659 | 0.0 | 8.30 | 386.5 | | | |
| 12/18/2015 | 08:49:31 | 2678 | 0.0 | 8.30 | 386.5 | | | |
| 12/18/2015 | 08:51:01 | 2693 | 0.0 | 8.30 | 386.5 | | | |
| 12/18/2015 | 08:52:31 | 2718 | 0.0 | 8.30 | 386.5 | | | |
| 12/18/2015 | 08:54:00 | 57 | 0.0 | 8.30 | 386.5 | Casing Test = Good | | |
| 12/18/2015 | 08:54:01 | 57 | 0.0 | 8.30 | 386.5 | | | |
| 12/18/2015 | 08:55:00 | 56 | 0.0 | 8.30 | 386.5 | End Job | | |

Post Job Summary

| Average Pump Rates, bbl/min | | | | | Volume of Fluid Injected, bbl | | | | | | |
|---------------------------------------|-------------------------------------|---------|----------------------------|---------------------------|---|---|---|----|--|--|--|
| Slurry | N2 | Mud | Maximum Rate | | Total Slurry 724.0 | Mud | Spacer 80.0 | N2 | | | |
| Treating Pressure Summary, psi | | | | | Breakdown Fluid | | | | | | |
| Maximum | Final 0 | Average | Bump Plug to | Breakdown | Type | Volume bbl | Density lb/gal | | | | |
| Avg. N2 Percent % | Designed Slurry Volume 724.0 bbl | | Displacement 383.0 bbl | Mix Water Temp 70 degF | Cement Circulated to Surface? <input checked="" type="checkbox"/> | | Volume 33.0 bbl | | | | |
| | | | | | Washed Thru Perfs <input type="checkbox"/> | | To ft | | | | |
| Customer or Authorized Representative | | | Schlumberger Supervisor | | | Circulation Lost <input type="checkbox"/> | Job Completed <input checked="" type="checkbox"/> | | | | |
| Kent Davenport | | | Conley Jensen/ Matt Leiker | | | - | - | | | | |



| | |
|--------------------------------|----------------------------|
| Service Order #: | |
| Date: | Dec/18/2015 |
| Operating Time (hh:mm): | 00:00 |
| Client Rep: | Kent Davenport |
| Schlumberger Engineer: | Conley Jensen/ Matt Leiker |
| Schlumberger FSM: | |

To be completed by Company Rep. Please answer Y (Yes) or N (No) and add any comments below.

| | | | | | |
|-----------|---|----|------------------------------|--|----|
| 4 | Evaluation | | | | |
| 4a | Main job objective achieved with no consequential non-productive time | 10 | yes <input type="checkbox"/> | no <input checked="" type="checkbox"/> | 0 |
| Sub-total | | | | | 0% |

Comments: (Please include a brief explanation for a "NO" response and summarize any innovations attempted on this well.)

| | |
|--------------------------|--------------------------------|
| Client: | Schlumberger: |
| | |
| Client Signature: | Schlumberger Signature: |