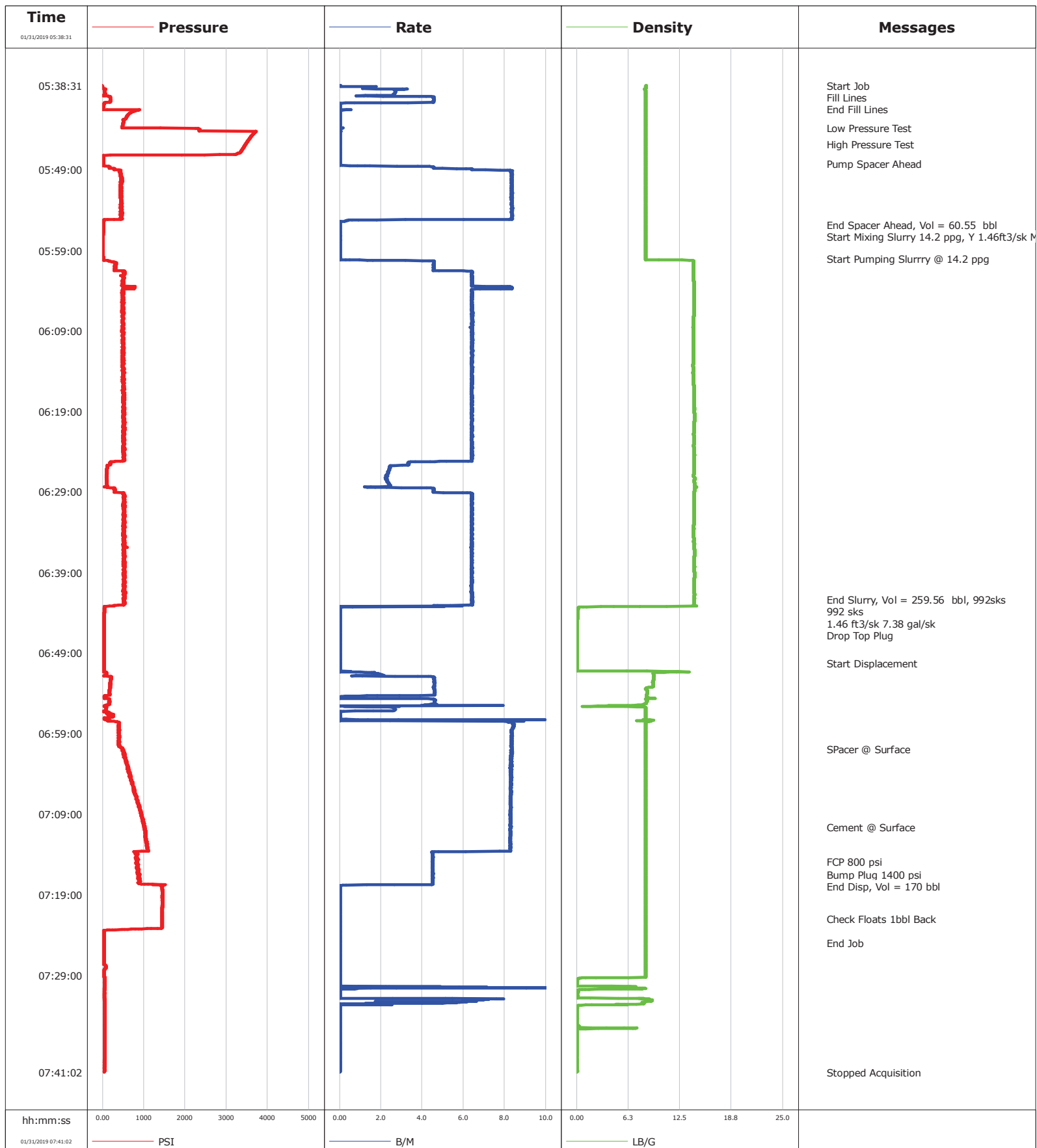


Well Echeverria 2F-2D-d267
Field
Engineer Adam Aasen
Country United States

Client Crestone Peak Resources
SIR No. 2893554
Job Type Cementing Surface Casing
Job Date 01-31-2019



Cementing Service Report

| | | | | | | | | | | | |
|--|------------------------|---|------------------|-------------------------------------|--|---------------------------|--|---|--------------------------|--------------------------------|--|
| | | | | Customer Crestone Peak Resources | | | | Job Number 2893554 | | | |
| Well Echeverria 2F-2D-d267 2F-2H-D267 | | | Location (legal) | | | Schlumberger Location | | | Job Start Jan/31/2019 | | |
| Field | | Formation Name/Type | | Deviation 0 deg | | Bit Size 13.5 in | | Well MD 2315.0 ft | | Well TVD 2285.0 ft | |
| County | | State/Province | | BHP psi | | BHST 110 degF | | BHCT 80 degF | | Pore Press. Gradient lb/gal | |
| Well Master | | API/UWI | | | | | | | | | |
| Rig Name Ensign 153 | | Drilled For Oil | | Service Via Land | | Casing/ Liner | | | | | |
| | | | | | | Depth, ft | | Size, in | | Weight, lb/ft | |
| | | | | | | | | | | Grade | |
| | | | | | | | | | | Thread | |
| Offshore Zone | | Well Class | | Well Type Development | | 98.0 | | 16.0 | | 55.0 | |
| | | | | | | 2300.0 | | 9.6 | | 40.0 | |
| Drilling Fluid Type Spud Mud | | Max. Density 8.70 lb/gal | | Plastic Viscosity 27.000 cP | | Tubing/Drill Pipe | | | | | |
| | | | | | | T/D | | Depth, ft | | Size, in | |
| | | | | | | | | | | Weight, lb/ft | |
| | | | | | | | | | | Grade | |
| | | | | | | | | | | Thread | |
| Service Line Cementing | | Job Type Cemeting Surface Casing | | | | | | | | | |
| | | | | | | | | | | | |
| Max. Allowed Tub. Press psi | | Max. Allowed Ann. Press psi | | WH Connection 9 5/8 head | | Perforations/Open Hole | | | | | |
| | | | | | | Top, ft | | Bottom, ft | | shot/ft | |
| | | | | | | | | | | No. of Shots | |
| | | | | | | | | | | Total Interval ft | |
| | | | | | | | | | | Diameter in | |
| | | | | | | Treat Down Casing | | Displacement 170.9 bbl | | Packer Type | |
| | | | | | | | | | | Packer Depth ft | |
| | | | | | | Tubing Vol. bbl | | Casing Vol. 174.3 bbl | | Annular Vol. 205.2 bbl | |
| | | | | | | | | | | Openhole Vol. 191.5 bbl | |
| Casing/Tubing Secured <input type="checkbox"/> | | 1 Hole Vol. Circulated prior to Cement <input 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 2298.5 ft | | | | Tool Type | |
| No. Centralizers | | Top Plugs 1 | | Bottom Plugs | | Stage Tool Type | | | | Tool Depth ft | |
| Cement Head Type Single | | | | | | Stage Tool Depth ft | | | | Tail Pipe Size in | |
| Job Scheduled For Jan/31/2019 05:38 | | Arrived on Location Jan/31/2019 07:47 | | Leave Location Jan/30/2019 | | Collar Type Float | | | | Tail Pipe Depth ft | |
| | | | | | | Collar Depth 2254.7 ft | | | | Sqz. Total Vol. bbl | |
| Date | Time 24-hr clock | Treating Pressure PSI | | Flow Rate B/M | | Density LB/G | | Message | | | |
| 01/31/2019 | 05:38:31 | -12 | | 0.0 | | 8.38 | | Started Acquisition | | | |
| 01/31/2019 | 05:38:32 | -12 | | 0.0 | | 8.38 | | Start Job | | | |
| 01/31/2019 | 05:38:34 | -12 | | 0.0 | | 8.38 | | Fill Lines | | | |
| 01/31/2019 | 05:40:34 | 183 | | 4.6 | | 8.36 | | End Fill Lines | | | |
| 01/31/2019 | 05:43:48 | 469 | | 0.0 | | 8.36 | | Low Pressure Test | | | |
| 01/31/2019 | 05:45:48 | 3468 | | 0.0 | | 8.36 | | High Pressure Test | | | |
| 01/31/2019 | 05:48:15 | 16 | | 0.0 | | 8.36 | | Pump Spacer Ahead | | | |
| 01/31/2019 | 05:55:46 | 18 | | 0.0 | | 8.35 | | End Spacer Ahead, Vol = 60.55 bbl | | | |
| 01/31/2019 | 05:55:51 | 17 | | 0.0 | | 8.35 | | Start Mixing Slurry 14.2 ppg, Y 1.46ft3/sk MW: 7.38gal/sk | | | |
| 01/31/2019 | 06:00:05 | 13 | | 0.0 | | 8.35 | | Start Pumping Slurry @ 14.2 ppg | | | |
| 01/31/2019 | 06:42:24 | 526 | | 6.4 | | 14.23 | | End Slurry, Vol = 259.56 bbl, 992sks | | | |
| 01/31/2019 | 06:42:27 | 504 | | 6.4 | | 14.23 | | 992 sks | | | |
| 01/31/2019 | 06:42:32 | 514 | | 6.4 | | 14.23 | | 1.46 ft3/sk 7.38 gal/sk | | | |
| 01/31/2019 | 06:43:26 | 44 | | 0.0 | | 0.18 | | Drop Top Plug | | | |
| 01/31/2019 | 06:50:15 | 33 | | 0.0 | | 0.02 | | Start Displacement | | | |
| 01/31/2019 | 07:00:53 | 488 | | 8.3 | | 8.35 | | SPacer @ Surface | | | |
| 01/31/2019 | 07:10:38 | 1020 | | 8.3 | | 8.35 | | Cement @ Surface | | | |
| 01/31/2019 | 07:14:54 | 835 | | 4.5 | | 8.35 | | FCP 800 psi | | | |
| 01/31/2019 | 07:16:30 | 878 | | 4.5 | | 8.35 | | Bump Plug 1400 psi | | | |
| 01/31/2019 | 07:17:00 | 901 | | 4.5 | | 8.35 | | End Disp, Vol = 170 bbl | | | |
| 01/31/2019 | 07:22:02 | 1443 | | 0.0 | | 8.35 | | Check Floats 1bbl Back | | | |

| | | | | |
|---|--------------|---------------------------------|--|------------------------------|
| Well Echeverria 2F-2D-d267 2F-2H-D267 | Field | Job Start Jan/31/2019 | Customer Crestone Peak Resources | Job Number 2893554 |
|---|--------------|---------------------------------|--|------------------------------|

Post Job Summary

| Average Pump Rates, bbl/min | | | | | Volume of Fluid Injected, bbl | | | | | | |
|---------------------------------------|------------|-----------------------------------|----------------------|---------------------------------------|-------------------------------|---------------------------|----------------|---|-------------------------|---|--|
| Slurry | N2 | Mud | Maximum Rate | | Total Slurry 259.5 | Mud | Spacer 60.0 | N2 | | | |
| Treating Pressure Summary, psi | | | | | Breakdown Fluid | | | | | | |
| Maximum | Final 0 | Average | Bump Plug to 1400 | Breakdown | Type | | Volume bbl | | Density 14.20 lb/gal | | |
| Avg. N2 Percent % | | Designed Slurry Volume 0.0 bbl | | Displacement 170.0 bbl | | Mix Water Temp 67 degF | | Cement Circulated to Surface? <input checked="" type="checkbox"/> | | Volume bbl | |
| | | | | | | | | Washed Thru Perfs <input type="checkbox"/> | | To ft | |
| Customer or Authorized Representative | | | | Schlumberger Supervisor Adam Aasen | | | | Circulation Lost <input type="checkbox"/> | | Job Completed <input checked="" type="checkbox"/> | |
| | | | | | | | | - | | - | |