

Well Summary Report

State-Krause 1 12/11/2017 06:00 - 12/12/2017 06:00

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|---------------------|----------------------------|----------------|----------------------------|-------------|--------------------|----------------------------------|
| API 05-123-65212 | State/Province Colorado | County Weld | Field Name Non-Operated | Well Status | Total Depth (ftKB) | Primary Job Type Abandon Well |
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| Time Log | | | | | | |
|------------|----------|----------|------|------------------------|--|--|
| Start Time | Dur (hr) | End Time | Code | Category | Com | |
| 06:00 | 4.00 | 10:00 | LOCL | Lock Wellhead & Secure | | |
| 10:00 | 1.00 | 11:00 | GOP | General Operations | Dig hole, locate CSG top, verify 8 5/8" | |
| 11:00 | 1.00 | 12:00 | IWHD | Install Wellhead | Cut CSG Top, Weld on 8 5/8" X 11" 3K wellhead, install cellar ring, backfill | |

State-Krause 1 12/13/2017 06:00 - 12/14/2017 06:00

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|---------------------|----------------------------|----------------|----------------------------|-------------|--------------------|----------------------------------|
| API 05-123-65212 | State/Province Colorado | County Weld | Field Name Non-Operated | Well Status | Total Depth (ftKB) | Primary Job Type Abandon Well |
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| Time Log | | | | | | |
|------------|----------|----------|------|------------------------|---|--|
| Start Time | Dur (hr) | End Time | Code | Category | Com | |
| 06:00 | 4.00 | 10:00 | LOCL | Lock Wellhead & Secure | | |
| 10:00 | 5.00 | 15:00 | GOP | General Operations | Smooth out sand surface around WH, haul in gravel, blade location, haul gravel and lay down on road to location | |
| 15:00 | 3.00 | 18:00 | SRIG | Rig Up/Down | MIRU Ensign rig #312 and related Equip. Lay down rig mats, spot tubing trailer, spot basebeam, spot rig, move in rig pump, rig tank, and frac tanks. SDFN | |
| 18:00 | 1.00 | 19:00 | CTRL | Crew Travel | | |
| 19:00 | 11.00 | 06:00 | LOCL | Lock Wellhead & Secure | | |

State-Krause 1 12/14/2017 06:00 - 12/15/2017 06:00

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|---------------------|----------------------------|----------------|----------------------------|-------------|--------------------|----------------------------------|
| API 05-123-65212 | State/Province Colorado | County Weld | Field Name Non-Operated | Well Status | Total Depth (ftKB) | Primary Job Type Abandon Well |
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| Time Log | | | | | | |
|------------|----------|----------|------|------------------------|---|--|
| Start Time | Dur (hr) | End Time | Code | Category | Com | |
| 06:00 | 1.00 | 07:00 | CTRL | Crew Travel | | |
| 07:00 | 4.00 | 11:00 | SRIG | Rig Up/Down | Fire up equip, Raise Derrick, NU BOPs, connect pump lines, haul in water, RU power swivel | |
| 11:00 | 2.00 | 13:00 | DTIM | Downtime | went to pick up 1st Drill Collar and blew a hydraulic hose on swivel, repair hose | |
| 13:00 | 1.00 | 14:00 | SRIG | Rig Up/Down | Perform maint. on equipment | |
| 14:00 | 1.00 | 15:00 | CTRL | Crew Travel | | |
| 15:00 | 15.00 | 06:00 | LOCL | Lock Wellhead & Secure | | |

State-Krause 1 12/15/2017 06:00 - 12/16/2017 06:00

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|---------------------|----------------------------|----------------|----------------------------|-------------|--------------------|----------------------------------|
| API 05-123-65212 | State/Province Colorado | County Weld | Field Name Non-Operated | Well Status | Total Depth (ftKB) | Primary Job Type Abandon Well |
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| Time Log | | | | | | |
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| Start Time | Dur (hr) | End Time | Code | Category | Com | |
| 06:00 | 1.00 | 07:00 | CTRL | Crew Travel | | |
| 07:00 | 1.00 | 08:00 | SRIG | Rig Up/Down | Safety meeting, fire up equip, Tally pipe, PU 6 1/8" Tricone bit BHA: 1) X-Over 2) Float Valve 3) Bit Sub 4) 6 1/8" Tri cone bit 3.5" Drill collar to 2 3/8" PH6 XOs 1) 1.12' 2) 0.80' 3) 1.13' Total Length: 7.85' | |
| 08:00 | 9.00 | 17:00 | DOPG | Drill Out Plugs | PU 1sr drill collar and drill cement @ surface, fought larger pieces of rock in returns, had to clean out return line multiple times. Continue Drilling pumping 2.5bpm, Drilled 35' of surface plug | |
| 17:00 | 1.00 | 18:00 | SRIG | Rig Up/Down | POOH LD drill collar & bit, winterize equipment, secure WH | |
| 18:00 | 1.00 | 19:00 | CTRL | Crew Travel | | |
| 19:00 | 11.00 | 06:00 | LOCL | Lock Wellhead & Secure | | |

State-Krause 1 12/18/2017 06:00 - 12/19/2017 06:00

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|---------------------|----------------------------|----------------|----------------------------|-------------|--------------------|----------------------------------|
| API 05-123-65212 | State/Province Colorado | County Weld | Field Name Non-Operated | Well Status | Total Depth (ftKB) | Primary Job Type Abandon Well |
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Well Summary Report

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| Start Time | Dur (hr) | End Time | Code | Category | Com | |
| 06:00 | 1.00 | 07:00 | CTRL | Crew Travel | | |
| 07:00 | 0.50 | 07:30 | SRIG | Rig Up/Down | Safety Meeting, Fire up equip. | |
| 07:30 | 3.00 | 10:30 | RUTB | Run Tubing | PU 6 1/8" Tricone bit BHA, RIH drill cement from 35' -168', | |
| 10:30 | 1.00 | 11:30 | RUTB | Run Tubing | PU JNT 5 (1st 2 3/8" JNT) swap washington rubber & pipe rams to 2 3/8", continue milling to 200' Thru cement plug | |
| 11:30 | 2.00 | 13:30 | RUTB | Run Tubing | RIH & wash down without swiveling, PU JNT #11 EOT @ 353' noticed returns were coming up outside of 8 5/8" surface casing, filling up cellar, SD Pump and leak stopped, POOH above CSG shoe, monitor for flow, no flow outside of CSG. | |
| 13:30 | 1.00 | 14:30 | PULT | Pull Tubing | POOH, LD Drill collars and 6 1/8" Tricone bit BHA | |
| 14:30 | 3.00 | 17:30 | SRIG | Rig Up/Down | MU mule shoe BHA, RIH to 250' stand by for cementers, hold safety meeting with Ranger cementers, spot and RU equip. | |
| 17:30 | 0.50 | 18:00 | CEMT | Cement Squeeze | Pump 5bbls 15.8# class G cement for balanced plug between 250-180', SI backside valve and displace 17 bbls cement, saw cement in returns by hole outside of surface CSG. Pumped a total of 105 sks, POOH LD 4 JNTS, circulate down TBG to clean up, didn't see any cement in returns, saw no returns outside of surface CSG, POOH remaining 4 JNTS and mule shoe. | |
| 18:00 | 1.00 | 19:00 | SRIG | Rig Up/Down | Clean up surface lines, RDMO Ranger Cementers, winterize rig Equip, hydrovac FB tank. | |
| 19:00 | 1.00 | 20:00 | CTRL | Crew Travel | | |
| 20:00 | 10.00 | 06:00 | LOCL | Lock Wellhead & Secure | | |

State-Krause 1 12/19/2017 06:00 - 12/20/2017 06:00

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| 06:00 | 1.00 | 07:00 | CTRL | Crew Travel | | |
| 07:00 | 0.50 | 07:30 | SRIG | Rig Up/Down | Safety meeting, fire up equip | |
| 07:30 | | 07:30 | PTST | Pressure Test | Set up to test surface CSG, fill wellbore, SI blind rams, hook up to pump down backside, bring pump to 40psi, noticed fluid leaking outside of surface CSG, SD pump, bled off psi | |
| 07:30 | 1.00 | 08:30 | TRIP | Tripping | TIH w/ mule shoe and 6 JNTS 2 3/8" PH6, tag cement @ 178', pull up and tag hard 3 different times. LD 1 JNT, end of shoe @ 158' establish 1.0bpm down tubing returning up casing to FB tank, walk rate to 2.0bpm, saw psi come up to 20 on CSG, still had returns to FB tank, saw slight fluid increase coming in outside of Surface CSG, SD pump | |
| 08:30 | 3.00 | 11:30 | GOP | General Operations | Stand by for orders | |
| 11:30 | 2.50 | 14:00 | RUTB | Run Tubing | POOH mule shoe, MU 6 1/8" Tricone bit and drill collars, RIH to 160' Pumping 2.0bpm, have returns to FB tank, rih and drill cement, very small flow coming up outside surface CSG, Continue to drill/wash down to 353', returns from leak outside of surface CSG increased, SD pump. | |
| 14:00 | 0.50 | 14:30 | PULT | Pull Tubing | POOH w/ 11 JNTS and tricone bit | |
| 14:30 | 3.00 | 17:30 | SRIG | Rig Up/Down | RD Rig floor, ND BOPS, chisel out cement around 11' flange neck to make room for 4.5" slip hanger. NU BOPs, RU Rig floor, swap over to 4.5" equip. Winterize Equip, SDFN | |
| 17:30 | 1.00 | 18:30 | CTRL | Crew Travel | | |
| 18:30 | 11.50 | 06:00 | LOCL | Lock Wellhead & Secure | | |

State-Krause 1 12/20/2017 06:00 - 12/21/2017 06:00

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| Start Time | Dur (hr) | End Time | Code | Category | Com | |
| 06:00 | 1.00 | 07:00 | CTRL | Crew Travel | | |
| 07:00 | 0.75 | 07:45 | SRIG | Rig Up/Down | Safety meeting, fire up equip | |
| 07:45 | 1.00 | 08:45 | RUTB | Run Tubing | PU 4.5" Float valve & RIH w/ 4.5" P-110, 11.6# CSG, run 7 JNTS EOT @ 320' Spot BJ cement equip. | |
| 08:45 | 1.25 | 10:00 | SRIG | Rig Up/Down | ND 11" 3K flange on top of WH, set Cameron slip hanger in place, slack of 4.5" with elvators, tighten 2 lock down pins in hanger, NU 11" 3K flange Continue to RU cement equipment, RU cement head to 4.5" CSG top Hold safety meeting with cementers | |
| 10:00 | 0.75 | 10:45 | CEMT | Surface Casing | Pressure test surface lines to 1500psi, good test, establish circulation, pump 10bbls fresh, followed by 30bbls 12.5#, 2.22 yield, WR 12.59, 76 sks, saw cement to surface after 23bbls, 7 back to surface, drop plug, displace w/ 5bbls fresh, land plug w/ 100psi circ pressure, bumped to 2500psi, float held, .25bbl back to truck. | |

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| 10:45 | 3.25 | 14:00 | SRIG | Rig Up/Down | Clean up lines, RD Cement Equip. RD 4.5" CSG equip, RD floor, loosten bolts on 11" flange to remove for welder, stand by for welder |
| 14:00 | 0.50 | 14:30 | SRIG | Rig Up/Down | Cut 4" CSG top flush with hanger, NU flange & Bops |
| 14:30 | 0.75 | 15:15 | RUTB | Run Tubing | PU 3.75" tricone bit @ RIH w/ 3.125" drill collars and 2 3/8" PH6 BHA: 1) 3.75" Tricone bit 2) float sub 3) bit sub Drill collars to PH6: 1) XO 2) XO Total length: 3.58' RIH w/ BHA, 6 drill collars and 3 JNTS 2 3/8" PH6 EOT @ 280' |
| 15:15 | 0.75 | 16:00 | SRIG | Rig Up/Down | Secure WH, Winterize Equip, SDFN |
| 16:00 | 1.00 | 17:00 | CTRL | Crew Travel | |
| 17:00 | 13.00 | 06:00 | LOCL | Lock Wellhead & Secure | |

State-Krause 1 12/21/2017 06:00 - 12/22/2017 06:00

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| 06:00 | 1.00 | 07:00 | CTRL | Crew Travel | |
| 07:00 | 1.00 | 08:00 | SRIG | Rig Up/Down | Safety Meeting, Fire up equipment, RU power swivel |
| 08:00 | 2.00 | 10:00 | RUTB | Run Tubing | Continue RIH w/ 3.75" tricone bit & TBG, Tag cement plug on JNT 12 @ 320' drill plug and float valve, saw good rubber in returns. Continue to work JNT 12 from 320'-382' saw heavy returns of old cement & wood, circulated until returns are clean. |
| 10:00 | 7.00 | 17:00 | RUTB | Run Tubing | Continue washing to TD TD @ 2500' w/ JNT 81, circulate hole clean |
| 17:00 | 2.00 | 19:00 | PULT | Pull Tubing | RD power swivel, LD 1 single JNT, stand back 37 stands in derrick, LD 6 drill collars. |
| 19:00 | 0.50 | 19:30 | SRIG | Rig Up/Down | OOH w/ 3.75" Tricone bit, Prep for cement in AM, winterize equip. Secure WH, SDFN |
| 19:30 | 1.00 | 20:30 | CTRL | Crew Travel | |
| 20:30 | 9.50 | 06:00 | LOCL | Lock Wellhead & Secure | |