

US ROCKIES REGION  
Operation Summary Report

| Well: HSR-JENKINS 14-31                                |                |               |   | Spud date: 2/26/1993 |          |     |  |   |  |
|--|----------------|---------------|---|----------------------|----------|-----|--|---|--|
| Project: COLORADO-WELD-NAD83-UTM13                     |                |               | Site: HSR-JENKINS 14-31                   |                      |          |     | Rig name no.: ENSIGN 810/810, LEED 723/723 |   |  |
| Event: CONST- CAP WELL WORK                            |                |               | Start date: 1/26/2016                     |                      |          |     |  | End date:   |  |
| Active datum: RKB @4,781.99usft (above Mean Sea Level) |                |               | UWI: 0/4/N/66/W/31/0/SWSE/6/0/0/0/0/0/0/0 |                      |          |     |  |   |  |
| Date   | Time Start-End | Duration (hr) | Phase                                     | Code                 | Sub Code | P/U | MD from (usft)                             | Operation   |  |
| 1/26/2016  | 10:30 - 12:00  | 1.50          |   | 30                   | E        | P   |  | MI Leed 723 and equipment to location. Flare crew still on location to kill well. Initial PSI TP-230, CP-510, surface valve was frozen. Once blown down, well was killed w/ 50 BBL down CSG and 20 in TBG. RDMO flare crew. Spot in and RU pump and tank while waiting on well to be killed.  |  |
|  | 12:00 - 13:00  | 1.00          |   | 30                   | A        | P   |  | Spot in base beam and RU Leed 723.  |  |
|  | 13:00 - 14:00  | 1.00          |   | 30                   | F        | P   |  | ND tree and WH. NU BOP and RU work floor and tongs.   |  |
|  | 14:00 - 16:30  | 2.50          |   | 31                   | I        | P   |  | MIRU Hole Seekers EMI. TIH 4 JTs to tag. Tagged 1/2 in on 4th JT at 7350'. LD tag JTs and TOO, EMI and tally out 221 JTs 2 3/8" TBG. 110 YB, 108 BB, 3 scanned bad. RDMO EMI. SIW. SDFN.  |  |
| 1/27/2016  | 16:30 - 17:30  | 1.00          |   | 30                   | G        | P   |  | Crew change out and travel to yard.   |  |
|  | 6:00 - 7:00    | 1.00          |   | 30                   | G        | P   |  | Crew travel to location. JSA and safety meeting.  |  |
|  | 7:00 - 8:45    | 1.75          |   | 31                   | I        | P   |  | Check PSI: CP-0 (light blow), SP-5 (lightly flowing water). TIH w/ CSG scraper and bit to 7009' w/ 214 JTs.   |  |
|  | 8:45 - 10:30   | 1.75          |   | 31                   | I        | P   |  | TOOH, LD CSG scraper.   |  |
|  | 10:30 - 12:15  | 1.75          |   | 31                   | I        | P   |  | TIH 4.5" RBP and 212 JTs 2 3/8" TBG. Set RBP at 6915'.  |  |
|  | 12:15 - 13:15  | 1.00          |   | 31                   | H        | P   |  | Establish circulation and circulate out gas.  |  |
|  | 13:15 - 13:45  | 0.50          |   | 33                   | C        | P   |  | Pressure test CSG and RBP to 1k/15min- good test. (rams leaked at first, but stopped after pressuring up accumulator.)  |  |
|  | 13:45 - 15:15  | 1.50          |   | 31                   | I        | P   |  | TOOH, SB TBG.   |  |
|  | 15:15 - 16:00  | 0.75          |   | 30                   |          | P   |  | Dump 2 SX sand on RBP. SIW. Drain pump and lines. Dig around surface WH. Tie back rig. RU CMT tank. SDFN.   |  |
|  | 16:00 - 17:00  | 1.00          |   | 30                   | G        | P   |  | Crew change out and travel to yard.   |  |
| 1/28/2016  | 6:00 - 7:00    | 1.00          |   | 30                   | G        | P   |  | Crew travel to location. JSA and safety meeting.  |  |
|  | 7:00 - 9:00    | 2.00          |   | 30                   |          | P   |  | Check PSI: CP-0, SP-0. RD floor, NU BOP and remove WH. WH was extremely tight and difficult to remove. CSG threads looked ok. Speer CSG and unland at 70k. NU dual entry, but CSG threads were found to be damaged and would not tighten into flange. Upon further inspection found the threads on both the CSG and WH were ruined and overtorqued. Re-landed CSG in slips. |  |
|  | 9:00 - 10:00   | 1.00          |   | 46                   | F        | P   |  | Wait on welder and bell nipple.   |  |
|  | 10:00 - 12:00  | 2.00          |   | 53                   | C        | P   |  | MIRU Welder. Safety meeting and hot work permit. Cut off bad threads and weld on new 4.5" bell nipple. Let welds cool. RDMO welder.   |  |
|  | 12:00 - 13:00  | 1.00          |   | 30                   | F        | P   |  | Un-land CSG and NU Dual entry equipment and BOP. RU floor and switch elevators and tongs to 1.66". Tie rig back to drum.  |  |
|  | 13:00 - 14:15  | 1.25          |   | 31                   | I        | P   |  | TIH down annulus w/ 37 JTs 1.66" TBG to 1210'. Had to circulate at 815; and 1080' to get TBG down.  |  |

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Well: HSR-JENKINS 14-31

Spud date: 2/26/1993

Project: COLORADO-WELD-NAD83-UTM13

Site: HSR-JENKINS 14-31

Rig name no.: ENSIGN 810/810, LEED 723/723

Event: CONST- CAP WELL WORK

Start date: 1/26/2016

End date:

Active datum: RKB @4,781.99usft (above Mean Sea Level)

UWI: 0/4/N/66/W/31/0/SWSE/6/0/0/0/0/0/0/0

| Date      | Time<br>Start-End | Duration<br>(hr) | Phase | Code | Sub<br>Code | P/U | MD from<br>(usft) | Operation   |
|-----------|-------------------|------------------|-------|------|-------------|-----|-------------------|---|
| 1/29/2016 | 14:15 - 16:30     | 2.25             |       | 31   | H           | P   |                   | Establish circulation, pump sweep of DF 2020, and continue to circulate and condition hole. Had full returns and saw almost no gas.   |
|           | 16:30 - 17:00     | 0.50             |       | 31   | I           | P   |                   | TOOH, SB 1.66" TBG. SIW. Drain pump and lines. SDFN.  |
|           | 17:00 - 18:00     | 1.00             |       | 30   | G           | P   |                   | Crew change out and travel to yard.   |
|           | 6:00 - 7:00       | 1.00             |       | 30   | G           | P   |                   | Crew travel to location. JSA and safety meeting.  |
|           | 7:00 - 7:45       | 0.75             |       | 31   | I           | P   |                   | Check PSI: CP-0, SP-5 (lightly flowing water). TIH down annulus w/ 37 JTs 1.66" TBG to 1210'.   |
|           | 7:45 - 11:45      | 4.00             |       | 31   | H           | P   |                   | Establish circulation and circulate well to condition hole. Had good returns, no gas. Sanjel showed up around 11:15. MIRU cementers.  |
| 2/1/2016  | 11:45 - 13:00     | 1.25             |       | 51   | C           | P   |                   | PUH, LD 5 JTs to put EOT at 1047'. RU cementers. Safety meeting. Pump 5 BBL fresh water, 20 BBL SMS, 5 BBL fresh, and 240 SX Type 3, 14.8# cement from 1050' to 300'. Pump 1 BBL fresh displacement to balance plug and clear lines. RD cementers to wash up.     |
|           | 13:00 - 13:45     | 0.75             |       | 31   | I           | P   |                   | TOOH, LD 1.66" TBG. Clean up rig floor, tongs, and equipment. RDMO cementers.   |
|           | 13:45 - 15:30     | 1.75             |       | 30   |             | P   |                   | ND BOP and dual entry equipment. Tie back rig. Re-land CSG at 75k. Install new seal and plates in surface WH. NU new GE 5k flanged WH and master valve. SIW. Drain pump and lines. Tie rig back to drum. Send BOP's to shop for repair and recertification. SDFN. |
|           | 15:30 - 16:30     | 1.00             |       | 30   | G           | P   |                   | Crew change out and travel to yard.   |
|           | 6:00 - 7:00       | 1.00             |       | 30   | G           | P   |                   | Crew travel to location. JSA and safety meeting.  |
|           | 7:00 - 7:45       | 0.75             |       | 30   | F           | P   |                   | Check PSI: CP-0, SP-0. ND master valve, NU BOP and bird bath, and RU work floor. Top off CSG w/ water.  |
| 2/2/2016  | 7:45 - 10:30      | 2.75             |       | 41   | A           | P   |                   | MIRU FMC E-line. Safety meeting. RIH w/ CBL tools to 4300'. Correlate to Brand X CBL from 3/9/93. PU and run CBL from 4298' to surface. Existing TOC at 4186', and new CMT from 1060' to Est. TOC at 146'. Max temp 161 Deg F. RDMO E-line.                       |
|           | 10:30 - 11:00     | 0.50             |       | 33   | C           | P   |                   | Pressure test CSG and WH to 1k/15min- good test.  |
|           | 11:00 - 12:30     | 1.50             |       | 31   | I           | P   |                   | TIH 211 JTs to tag sand on RBP at 6915'.  |
|           | 12:30 - 13:15     | 0.75             |       | 31   | H           | P   |                   | Establish circulation and circulate sand off of RBP. Crew took lunch while circulating.   |
|           | 13:15 - 15:00     | 1.75             |       | 31   | I           | P   |                   | Latch onto RBP, release and TOOH. LD RBP. Drain pump and lines. SIW. SDFN.  |
|           | 15:00 - 16:00     | 1.00             |       | 30   | G           | P   |                   | Crew change out and travel to yard.   |
| 2/2/2016  | 8:00 - 9:15       | 1.25             |       | 30   | G           | P   |                   | Crew travel to location. JSA and safety meeting. Late start due to bad roads and weather.   |
|           | 9:15 - 13:30      | 4.25             |       | 31   | I           | P   |                   | Check PSI: CP-0, SP-0. Start and warm up equipment. MIRU Hole Seekers hydro tester. TIH XN/NC, 10 JTs 2 3/8" TBG, AS-1X production packer w/ high temp rubbers, and 211 JTs 2 3/8" TBG, hydro test in to 6k PSI. RDMO hydro tester.                               |
|           | 13:30 - 14:30     | 1.00             |       | 31   |             | P   |                   | RU lubricator and broach TBG w/ 1.91" broach to XN. POOH. LD lubricator.  |
|           | 14:30 - 15:00     | 0.50             |       | 31   | H           | P   |                   | Circulate 75 BBL of packer fluid down CSG/TBG annulus.  |

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| Project: COLORADO-WELD-NAD83-UTM13                     |  | Site: HSR-JENKINS 14-31 |   | Rig name no.: ENSIGN 810/810, LEED 723/723 |  |
| Event: CONST- CAP WELL WORK                            |  | Start date: 1/26/2016   |   | End date:                                  |  |
| Active datum: RKB @4,781.99usft (above Mean Sea Level) |  |                         | UWI: 0/4/N/66/W/31/0/SWSE/6/0/0/0/0/0/0 |  |  |

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|----------|-------------------|------------------|-------|------|-------------|-----|-------------------|---|
|          | 15:00 - 16:15     | 1.25             |       | 30   |             | P   |                   | Set packer at 6925' and land w/ EOT at 7252'. ND BOP. NU master valve and torque flange.  |
|          | 16:15 - 17:00     | 0.75             |       | 52   | G           | P   |                   | Pressure test packer to 1k/15min- good test. Pressure test WH flange and mandrel seals (GE WH) to 5k/15min- good test. SIW. Drain WH, blow out and winterize valves w/ methanol. RDMO tester. SDFN. Crew change out and travel to yard. |
|          | 17:00 - 18:00     | 1.00             |       | 30   | G           | P   |                   |   |
| 2/3/2016 | 6:00 - 7:00       | 1.00             |       | 30   | G           | P   |                   | Crew travel to location. JSA and safety meeting.  |
|          | 7:00 - 9:00       | 2.00             |       | 30   | C           | P   |                   | RDMO Leed 723. Had to dig lines and equipment out of snow.  |
| 2/8/2016 | 9:00 - 10:00      | 1.00             | MIRU  | 42   | B           | P   |                   | MIRU Ensign 810   |
|          | 10:00 - 11:00     | 1.00             | COMP  | 42   | B           | P   |                   | broach  |
|          | 11:00 - 14:30     | 3.50             | COMP  | 42   | B           | P   |                   | swab  |
|          | 14:30 - 15:30     | 1.00             | RDMO  | 42   | B           | P   |                   | RDMO Ensign 810   |