

	HydraShock Coiled Tubing		Treatment Date
			December 3, 2016
Run-in-place CT Case History		Pages	
Document Number	Approver Position	HydraShock CT Product Line Manager	
RIPCT-000002	Approver Name	Lauren Mendenhall	

Days stuck before called: 1 days  
Location: Woods County / OK  
Formation: Mississippian Lime

wireline down to perforate the CT to establish circulation. After taking the 1.25" CT to max pull and jarring multiple times, it was decided to use ΔnBalls to activate the HydraShock.

### Scope of Work:

Assist in removing a coiled tubing string bit-stuck inside a jointed pipe fishing string.

### Treatment:

The HydraShock specialist was deployed at 1:00pm on 12/2/16 and the process of freeing the coiled tubing began. The coiled tubing was pulled to max 4 times consecutively, while alternating fluid movement. 3 set down attempts were also made to attempt to free the CT and BHA. The hydraulic jars were fired multiple times up and down, as the tool string was stuck in a vertical section. The operations were stopped for 6 hours before the HydraShock was given a chance to free the 1.25" CT & 1.69" BHA. The initial ball dropped was a "Green" ball, which extruded at 3,800psi, which fit within the designed range. The ΔnBall was pumped down at 1.0bbl/min, and seated at 0.25bbl/min. The coiled tubing was put in tension for the HydraShock event, with 5,000lbs overpull applied. Immediately after the ball extruded, the coiled tubing lost weight. On the first attempt to pick up, the coiled tubing was pulled back to surface, and the multiple fishing operations resumed.

### Background:

Workstring: 1.25" CT / 0.109" Wall thickness  
HydraShock: 350 Series HydraShock CT Sub  
Immediate Concerns: multiple fish in well | CT inside JP, inside casing, fishing tools  
SICP: 500psi  
Completion Specifics:

- 4.5" 11.6lb Casing
- 90° - 6,130'
- PBTD - 10,240'
- Stuck Depth Counter Reading - 6,021'
- BHT - 185°F
- Obstruction - Coiled tubing inside JP

The operating company had rigged up a 1.25" coiled tubing unit with a standard milling BHA to dress the top of the 2.00" CT stuck inside the well. The 1.25" CT became stuck inside of 2.375" JP while dressing the top of the 2.00" CT. The 2.00" CT was in the well fishing a wireline tool string. Once the 2.00" CT became stuck, it was decided to use 2.375" JP to fish it out. Once the 2.375" JP became stuck, the 1.25" CT was run in with a 1.75" mill to