

	HydraCut Coiled Tubing	Treatment Date
		9-Jun-2018
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HC-0000-03	Approver Position Approver Name	Technical Engineer Logen Kanngiesser

Days stuck before called: 4

Location: Alpine/AK

Formation: Turner / Frontier

Scope Of Work:

Assist the client freeing a 1.75" coiled tubing string from the wellbore. If unsuccessful perform HydraCut.

Background:

Coil Tubing Size: 1-3/4"

HydraShock: 350 Series 1.20" HydraShock
Rescue Tool and 1.18" HydraCut

SICP: 950 PSI

Completion Specifics:

- > 3-1/2" 9.30#
- > 90° - 4,086'
- > PBDT - 17,837'
- > BHT- 140° F
- > Obstruction- Frac Sand

HydraCut Specifics:

- > 1.75" Coil OD, Wall 0.109"-0.175"
- > 12,077' Stuck Depth
- > 11,500' Target cut depth

Treatment:

The client contacted Tenax Energy asking for assistance in freeing a stuck coiled tubing string. With well specific information the Tenax team redesigned and engineered tools for the job. The tools and team were flow to the job location, once onsite the Tenax Downhole Technician's verified that wellbore conditions have not change and were still within operating parameters. With the BHA disconnected prior to the arrival of the Tenax Downhole Technician's, a modified CTRT was deployed and seated on the coil connector. Base line pressure and excursion pressures were recorded. The process of launching Δnball's began During the course of ball dropping the coiled tubing has left in compression and pulled into tension. The coiled tubing was unable to be freed using Δnball's, the decision to deploy HydraCut was made. Several dry runs were made to ensure the accuracy of the cut prior to deployment. A series of Δnball's were deployed and the calculated fluid spacer was pumped, then HydraCut was loaded into the reel and launched. Once at the calculated depth the HydraCut fired and the coiled tubing string became free, the coil string was then pulled out of the wellbore.

The client was perform a coil clean out on a wellbore that had been fraced 10 years previously. During the clean out they became detained multiple times below the slotted liner, they were able to get tubing moving and pick up above the liner. Once hole was clean they preceded to continue clean out and became