

	HydraCut Coiled Tubing	Treatment Date
		17-Jul-2019
Document Number	HydraCut CT Case History	Pages
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HC-0000-69	Approver Position	Technical Engineer
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Days stuck before called: 4

Location: Weld/ CO

Formation:

Scope Of Work:

Attempt to free stuck coil tubing unit with HydraShock, if un-successful deploy Hydracut and recover majority of the string.

Background:

Coil Tubing Size: 2 3/8"

HydraShock: 500 Series 1.45" HydraShock
Rescue Tool and 1.45" HydraCut

SICP: 460 PSI

Completion Specifics:

- 5.5" 20#
- 7,470'
- TVD - 6,490'
- BHT- 230° F
- Obstruction- Sand and plug debris

HydraCut Specifics:

- 2 3/8" coil tubing .175"-.250"
- 11,169' Stuck Depth
- 11,000' Target cut depth

The customer was performing a composite drill out operation utilizing a 4.625 twister flat bottom mill on 2-3/8" coil tubing. After drilling 34 prime composite plugs coiled tubing became stuck. The customer pumped 150k scf of N2 and pulled to 75k trying weight. Unable to move the Tenax hotline was called. A team was deployed.

Treatment:

Upon the arrival of the Tenax downhole specialist they discussed wellbore conditions and immediate concerns with the onsite representative. Pumping pressures where taken at varying rate's. A flow check of the coil string was performed, coil was drifted to ensure the CTRT and the HydraCut would fit if needed. An .875" dissolvable ball was deployed and the disconnect shifted. After the successful shift of the disconnect. 10.0 ppg brine was pumped to speed the dissolve time of the ball. Base line pressures were taken and a 1.45" CTRT was deployed with a Δn control ball on seat. With the CTRT on seat pressures where once again checked at varying rates. Δn balls where deployed in clusters of three with 10 k down. With little movement and weight return clusters of Δn ball's where deployed in 10k tension. The customer made the decision to cut the coiled tubing string after 35 Δn balls where pumped with no string movement. Calculations on stuck point and Δn balls needed where performed. The appropriate Δn ball's were pumped with the calculated fluid volume spaced out in-between, The HydraCut was loaded into the reel and launched downhole. The coiled tubing string was pulled into tension prior to cutting. HydraCut activated and the coiled tubing string was free, the well was circulated clean and coiled tubing pulled to surface. Once on surface the coil recovered was within 200' of target cut depth.

