

	HydraCut Coiled Tubing		Treatment Date
			10-Dec-2018
HydraCut CT Case History		Pages	
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Document Number	Approver Position	Technical Engineer	
HC-0000-63	Approver Name	Logen Kanngiesser	

Days stuck before called: 2  
Location: Midland/TX  
Formation:

**Scope Of Work:**

Attempt to free stuck coil tubing unit with HydraShock. If unsuccessful, deploy Hydracut and recover majority of the string.

**Background:**

Coil Tubing Size: 2 3/8"  
HydraShock: 500 Series 1.68" HydraShock  
Rescue Tool and 1.68" HydraCut

SICP: 0 PSI

**Completion Specifics:**

- 5.5" 17#
- 90° - 9,611'
- TVD - 8,668'
- BHT- 185° F
- Obstruction- Sand and plug debris

**HydraCut Specifics:**

- 2 3/8" coil tubing .138"-.250"
- 9,882' Stuck Depth
- 7,000' Target cut depth

Customer was performing a drill out operation utilizing a 4.75 JZ Hybrid bit. During the drill out returns were lost as well as the ability to move the tubing. Tubing was worked and pulled to max tension. 1 Million SCF of nitrogen was pumped. Attempts were made to free the tubing, due to the limited cycle fatigue the decision was made to stop and wait on Tenax.

**Treatment:**

When the Tenax Downhole Technicians arrived on location, critical well information was gathered and the best course of action forward was formulated. A 0.75 "Houdini" dissolvable ball was pumped and seated on the hydraulic disconnect, once a disconnect was observed the 1.68" rescue tool was deployed with a control Δnball on seat .Utilizing the data from the control Δnball the decision was made to send red Δnball's, a total of 28 were launched in compression and tension at varying weights. With no change on the backside or movement on weights, black Δnball's were sent downhole next. 40 black Δnball's were launched in compression and tension at varying weights the coiled tubing began to slide up hole from 9,882' to 9,653'. Progress stopped and all data was gathered for the deployment of the HydraCut. The 1.68" HydraCut was deployed and verified that it was moving in the reel utilizing a listing device. When the HydraCut was on target depth the cut was made and the coiled tubing was free. Picked up and circulated the well clean. The coiled tubing string was brought to surface.

