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|  | HydraCut Coiled Tubing | Treatment Date |
| | | 12-Nov-2018 |
| Document Number | HydraCut CT Case History | Pages |
| | | 1/1 |
| HC-0000-62 | Approver Position | Technical Engineer |
| | Approver Name | Logen Kanngiesser |

Days stuck before called: 2

Location: Weld/Colorado

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 5/8"

HydraShock: 500 Series 1.68" HydraShock
Rescue Tool and 1.68" HydraCut

SICP: 900 PSI

Completion Specifics:

- 5.5" 20#
- 90° - 8,292'
- TVD - 8,100'
- BHT- 185° F
- Obstruction- Sand and plug debris

HydraCut Specifics:

- 2 3/8" coil tubing .175"-.250"
- 11,229' Stuck Depth
- 6,000' Target cut depth

The customer was performing a composite drill out operation utilizing a 4.63 varel slipstream bit on 2-3/8" coil tubing. After drilling through plug 32 and tagging 33 a short trip was being performed, during the short trip returns to surface were lost and the coil company was unable to move the string.

Treatment:

When the Tenax Downhole Technicians arrived on location critical well information was gathered and the best course of action forward was formulated. A dissolvable ball was selected and pumped down hole to disconnect the BHA, once confirmation that the BHA was disconnected a 1.60" HydraShock CTRT was launched and seated on the coil connector. The technicians proceeded to launch Δnball's in series of three, a total of 184 Δnball's were pumped, with pipe in compression, tension and neutral weight. No string movement was detected or pressure rise on the anulles. Stuck point calculations were performed. The appropriate Δnball'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.