From:	Corey Thomson
To:	Mike Martin; DST_JUS_OROGO
Cc:	John Hawkins; Tim Wood; Dusty Schneider
Subject:	Request For Variance to Abandonment Program 300/M-25-6030-12330/4 ACW-2022-PARA-M-25-WID1867
Date:	July 11, 2023 11:41:43 AM

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ATTN: OROGO

RE: Request of Variance to Abandonment Program for 300/M-25-6030-12330/4 (ACW-2022-PARA-M-25-WID1867)

Due to operational difficulties encountered removing the existing 177.8mm tubing string, Paramount Resources is seeking a variation from the approved program based on the following:

Prior to Step # 20 of the program the 244.5 mm / 177.8 mm annulus was pressure tested to 14.0 MPa. Pressure held for 10 minutes with no leak off.

As per program Step # 20 the 178.8 mm tubing string was cut approximately 3285 mKB. An attempt to forward circulate the well was not achieved. Forward circulation pressure of 33 MPa at 80 L/min showed returns of 10-20 L/min from 244.5 mm / 178 mm annulus. No reverse circulation was attempted due to the physical limitations and potential damage of the 244.5 mm surface casing due to circulating pressure.

Electric Wireline performed Free Point evaluation of the 177.8 mm casing and found there is 100% free pipe at 1000 mKB, 2000 mKB, 2205.2 mKB, 2405.9 mKB with casing movement at 155,000 to 170,000 daN pipe weight. There is 70% free pipe at 2500 mKB and 40% free pipe at 3000 mKB. Pipe is considered stuck when the reading is less than 100%.

Based on this information Paramount Resources is hereby requesting the following program variation:

Step # 20: Cut 177.8 mm – 43.16 kg/m L-80 tubing at 2403.0 mKB.
Step # 21. Pull and lay down 177.8 mm – 43.16 m L-80 tubing
Step # 22: Run in 73 mm tubing string to 3285 mKB (approximately). Circulate wellbore to non-saline fresh water. Pull tubing from wellbore.
Step # 23: Run 244.5 mm permanent bridge plug and set above cut tubing at 2403 mKB. Pressure test bridge plug to 7.0 MPa x 10 min. Move on cementing unit. Spot 4.0 m3 cement (cap Bridge Plug with 30 m cement – using 73 mm tubing string) on top of Bridge Plug. Pull out of hole 73 mm tubing string. RIH and tag cement top. A minimum of 1800 daN is required. Record set down weight and depth on tour sheet and Daily Report. Pull out tubing string.
Step # 23: Make and run cement bond logging tools, conduct high speed overview running in hole. Conduct cement bond log from PBTD to surface.

From this point forward the program would resume as per the approved ACW 2022-PARA-M-25-

WID1867

Sincerely,

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