Formation Tops Wellbore History Groups NORDLAND GP TOP **NAUST FM TOP GENERAL** 400 BAKKEN GP TOP TORSK FM TOP Well 7120/1-5 was drilled as an appraisal well on the Gotha discovery in the southern part of the Loppa High in the Barents Sea. The objectives 500 were to test the distribution and quality of the Permo-Triassic conglomerate, test the quality of the Permian reservoir, to reduce the uncertainty of the time-depth conversion and to provide information 600 relating to additional prospectivity in the southern Loppa High area. Planned TD was 2920 m. KAPP TOSCANA GP TOP SNADD FM TOP 700 **OPERATIONS AND RESULTS** Appraisal well 7120/1-5 was spudded with the semi-submersible 800 installation Leiv Eiriksson on 2 March 2017 and drilled to TD at 2527 m in the Late Permian Røye Formation. After coring in the 8 ½" section the rate of penetration was very slow, and since the well proved only shows and no moveable hydrocarbons at Gotha reservoir level TD was set 900 earlier than planned. The well was drilled with seawater and hi-vis pills down to 662 m and with Performadril water-based mud from 662 m to TD. 1000 A 285 metres gross sequence of Permian age spiculitic carbonates with poor reservoir quality was penetrated from 2241.5 m to TD. The 1100 Permo-Triassic conglomerate was absent. No pressure gradients could be established due to poor reservoir quality and/or wellbore damage resulting in seal failure. Minor oil shows were observed in siltstones 1200 and sandstones of the upper Snadd Formation in the interval from 885 to 955 m. These were typically described as having no odour, no stain, weak yellow direct fluorescence, slow diffuse weak bluish white cut 1300 fluorescence, weak cream fluorescent residue, no visible residue. The Røye Formation spiculitic carbonates had intermittent oil shows all through, generally described as no to weak hydrocarbon odour, no to 1400 rarely spotty stain, dull greenish vellow to dull vellow direct TD (m) fluorescence, slow streaming to blooming dull blue white cut fluorescence, dull bluish white to greenish yellow fluorescent residue. 1500 No visible residue. A total of 156 m of conventional core were cut in 7 cores in the Permian 1600 interval from 2243.6 to 2399.77 m with generally excellent recovery. Core-log shifts, in meters, for the seven cores were (in succession from core 1 to core section): -0.64, -0.08, -0.08, -0.29, -0.37, -0.81, 1700 -0.81. No fluid sample was taken. The well was permanently abandoned on 7 May 2017 as a dry well with 1800 shows. **TESTING** 1900 No drill stem test was performed. 2000 2100 2200 TEMPERINEDROPNOP TOPROPERINED TOP 2300 2400 2500