DRILLING PROGNOSIS

Well Name: 7220/8-1 Alta
Location: Barents Sea
Rig: Transocean Spitsbergen
Water Depth: 367 m
Drill Floor Elevation: 25 m
Seabed Elevation: 342 m
Total Depth: 2,500 m MD / 2,500 m TVD
Prepared By: Ingrid Solheim
Date: 14 March 2026

Objectives

Primary objective: Test the Alta prospect, a Triassic fault-block structure with Stø Formation reservoir sandstones. Secondary objective: Evaluate the Fruholmen Formation for potential reservoir development. Tertiary objective: Collect a complete suite of logs and cores for regional geological calibration.

Casing Program

Hole Size	Casing Size	Setting Depth (m MD)	Setting Depth (m TVD)	Cement Type	Cement Volume (m³)
36"	30"	392	392	Class G + 2% CaCl2	180
26"	20"	1,050	1,050	Class G + 35% Silica Flour	420
17½"	13⅜"	1,820	1,820	Class G + 35% Silica Flour	310
12¼"	9⅝"	2,350	2,350	Class G + 35% Silica Flour	240
8½"	Open hole	2,500	2,500	—	—

Formation Tops

Formation	Top (m MD)	Top (m TVD)	Thickness (m)	Lithology
Seabed	342	342	—	—
Kolmule Formation	1,180	1,180	210	Claystone, dark grey, soft
Kolje Formation	1,390	1,390	145	Claystone, grey, calcareous
Knurr Member	1,535	1,535	38	Sandstone, fine, glauconitic
Hekkingen Formation	1,573	1,573	62	Claystone, black, organic-rich
Fuglen Formation	1,635	1,635	88	Claystone, grey, silty
Stø Formation	1,723	1,723	142	Sandstone, fine to medium, quartzose
Nordmela Formation	1,865	1,865	95	Claystone, grey, micaceous
Tubåen Formation	1,960	1,960	180	Sandstone, fine, interbedded with claystone
Fruholmen Formation	2,140	2,140	210	Claystone, grey, with sandstone stringers
TD	2,500	2,500	—	—

Drilling Fluid Program

Interval (m MD)	Mud Type	Density (sg)	Viscosity (s/qt)	Fluid Loss (ml/30 min)	Solids (%)
342 – 392	Seawater / Hi-Vis sweeps	1.03	100 – 120	—	—
392 – 1,050	Seawater / Gel / Polymer	1.05 – 1.08	45 – 60	—	4 – 6
1,050 – 1,820	KCl / Polymer / Glycol	1.10 – 1.14	40 – 50	6 – 8	6 – 8
1,820 – 2,350	KCl / Polymer / Glycol	1.14 – 1.18	42 – 52	4 – 6	8 – 10
2,350 – 2,500	KCl / Polymer / Glycol	1.18 – 1.20	45 – 55	3 – 5	9 – 11

Logging Program

Interval (m MD)	Logging Tool	Purpose
1,820 – 2,350	MWD: GR / RES / DEN / NEU	Real-time formation evaluation
1,820 – 2,350	Wireline: GR / RES / DEN / NEU / SON	Primary open-hole logging suite
1,820 – 2,350	VSP	Seismic calibration
1,820 – 2,350	FMI / Sonic Scanner	Fracture and anisotropy evaluation
1,820 – 2,350	MDT	Pressure and fluid sampling
1,820 – 2,350	Sidewall Cores	Reservoir rock sampling

Coring Program

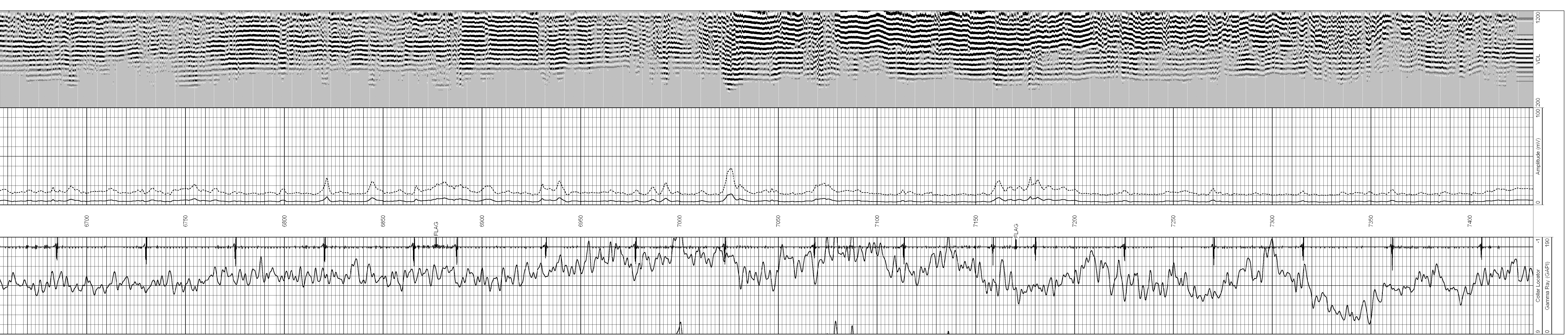
Core No.	Interval (m MD)	Length (m)	Recovery (%)	Lithology
1	1,720 – 1,750	30	97	Stø Formation: sandstone, fine to medium, quartzose, with thin claystone interbeds
2	1,750 – 1,780	30	93	Stø Formation: sandstone, fine to medium, quartzose, with thin claystone interbeds
3	1,780 – 1,810	30	90	Stø Formation: sandstone, fine to medium, quartzose, with thin claystone interbeds
4	2,140 – 2,170	30	95	Fruholmen Formation: claystone, grey, with sandstone stringers
5	2,170 – 2,200	30	92	Fruholmen Formation: claystone, grey, with sandstone stringers
6	2,200 – 2,230	30	88	Fruholmen Formation: claystone, grey, with sandstone stringers

Contingency Plan

Lost Circulation: Reduce pump rate, add LCM pills (fibre / flake / granular), consider cement squeeze if losses exceed 50 m³/hr.
Kick: Shut in well, circulate out using Driller's method, increase mud weight as required.
Stuck Pipe: Work pipe, spot pipe-free fluid, jar down, back off if unsuccessful.
Wellbore Instability: Increase mud weight, add shale inhibitor, reduce trip speed.
Abandonment: Set cement plug across reservoir, set surface plug, cut casing 5 m below seabed.

Approvals

Role	Name	Signature	Date
Prepared By	Ingrid Solheim		14 March 2026
Reviewed By	Tor Eriksen		
Approved By	Kari Nordvik		


1200
VDL
-200
100
Amplitude (mV)
0
6700
6750
6800
6850
FLAGS
6900
6950
7000
7050
7100
7150
FLAGS
7200
7250
7300
7350
7400
-1
Collar Locator
0
150
Gamma Ray (GAPI)
0