

ORO-01 SodM EOWR

End of Well Report for SCAN well Oranjeoord-01 (ORO-01)

Authors:

Chris Jamieson – Well Engineer

Robin Gielisse – Well Engineer

Milan Brussée – Geoscientist

Approval

Role	Name & Position	Approval
Responsible	Chris Jamieson, SCAN Well Engineer	
Reviewer	Marten ter Borgh, SCAN Exploration Lead	
Accountable	Reinout Storm, SCAN Project Lead Boringen	

Versions

Version	Date	Description
0.1	21-06-2024	For review
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1. Introduction

This document has been created as per [Article 8.2.2.2 Mining regulation](#) and contains relevant data specified in annexes 12 and 12a. Further information can be requested in writing.

The Oranjeoord-01 well (ORO-01) was the second research well drilled as part of the SCAN geothermal exploration project by EBN B.V. using the RED Drilling E200 rig. The wellsite location was constructed between February and March 2024, with a 20" Conductor driven to 58.2 mNAP and cut 0.97 mBGL inside the cellar to accommodate the wellhead and BOP.

The rig arrived on location on April 4, 2024 and the well was spudded on April 12. The well was drilled to a total depth of 844 mMDRT (843.99 mTVDRT, 837.46 mTVDNAP), reaching TD on May 4, 2024, containing various coring and logging intervals for comprehensive data acquisition. Production testing of the primary target (Brussel Sand Member) was conducted using a well test spread and coil tubing unit with nitrogen lift, alongside a DST string with a jet pump and downhole shut in valve for additional production tests. Injection testing was performed with a DST string and downhole shut in valve.

Following the well test phase, two caprock intervals were perforated, and extended leak-off tests (XLOT) were conducted. The well was abandoned in accordance with mining regulations, concluding drilling operations on May 20, 2024, with the rig departing the location on May 23, 2024. Surface decommissioning occurred between May 27 and 28, 2024, involving the placement of an environmental plug and removal of the conductor and wellhead to 3.20 mBGL as stipulated by mining regulations.

2. Project Data

2.1. Project Personnel

Table 1: ORO-01 EBN Office Personnel

EBN – Office Team	
SCAN Project Lead Boringen	Reinout Storm
SCAN Exploration Lead	Marten ter Borgh
Drilling Engineering Manager	Arthur Jongejan
Sr. Drilling Engineer (SCAN Ops.)	Claudio Virgilio
Drilling Engineer (SCAN Design)	Robin Gielisse
Drilling Engineer (SCAN Design)	Sarmad al Dujaili
Drilling Engineer (SCAN Design)	Chris Jamieson
Drilling Cost Estimation Expert	Fokko Wedda
Geoscientist (Project)	Milan Brussée
Geoscientist (Project)	Adriaan Janszen
Geoscientist (Project)	Henk van Lochem
Geophysicist (VSP)	Johannes van den Akker
Geophysicist (VSP)	Michael Fluch
Petrophysicist	Joost van den Broek
Operations Geologist	Christian Martinelli
HSE Support	Gosse Flootman
HSE Support	Ryan Schuitema

Table 2: ORO-01 EBN Rig Personnel

EBN – Rig Team			
Drilling Supervisor	Siebe Viersen	Logistics Coordinator	Henk van der Veen
Drilling Supervisor	Gerjan Hazelaar	Logistics Coordinator	Gert van der Veen
Drilling Supervisor	Mark De Jong	Wellsite Geologist	Marek Jamka
Drilling Supervisor	Rudy Schott	Wellsite Geologist	Andrzej Mysko
Drilling Supervisor	Marco Aardema	HSEQ	Gosse Flootman
Wellsite Drilling Eng.	Kari-Ann Marijnissen	Well Test Engineer	Axel Sanden
Wellsite Drilling Eng.	Jaro Kloosterman		

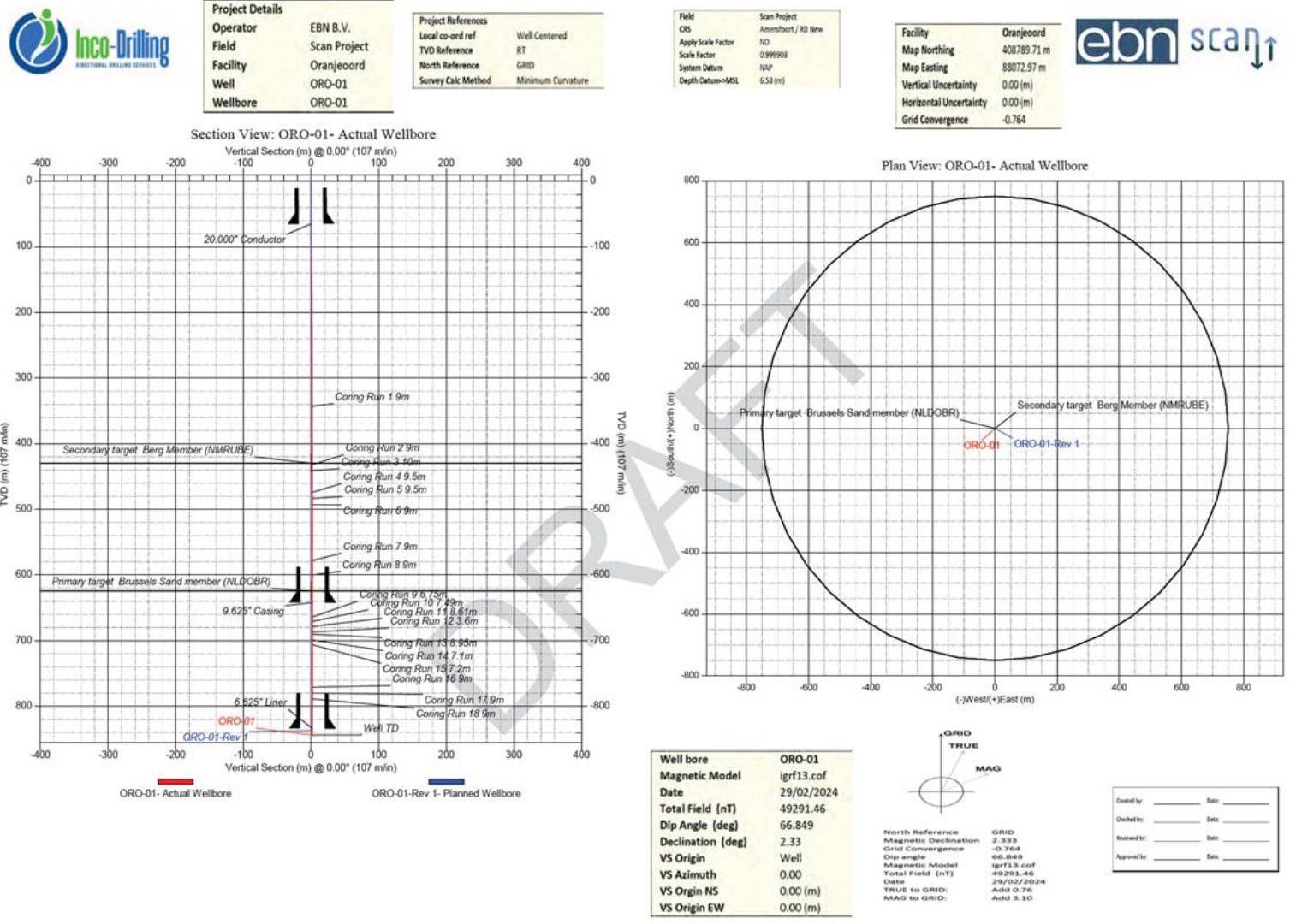
2.2. Well Information

Table 3: General Well Information

Item	Description
Operator	EBN
Location	Krukweg
Municipality	Moerdijk
Well name	Oranjeoord-01 (ORO-01)
Well classification	Vertical
Target Formations	Brussels Sand Member (NLDOBR), Berg Member (NMRUBE)
Coordinate System	All coordinates in this document are in Amersfoort / RD New (EPSG:28992), unless stated otherwise. The surface location also provided in ETRS89 (EPSG: 4258) system
Well type	Scientific research
Surface Location	RD New: X: 88072.966; Y: 408789.714 ETRS89: Lat: 51.6639212°N; Long: 4.4198358°E
Depth reference	RT (N.A.P reference), unless stated otherwise.
Ground Level relative to datum	+0.30 mNAP (ground level is 0.30 m above NAP) (Note: top of concrete slab is taken as ground level)
Drilling Rig	RED Drilling E200
RT – GL	6.23 m
RT – N.A.P	6.53 m
Total depth (mMDRT / mTVDRT / mTVDNAP)	844 / 843.99 / 837.46
Date Rig on Location	04/04/2024 07:00
Spud Date	12/04/2024 17:35
Well Total Depth	04/05/2024 03:50
End of Drilling Operations	20/05/2024 12:00
Date Rig Off Location	24/05/2024 12:00
Start of Surface Decommissioning	27/05/2024 07:00
End of Surface Decommissioning	28/05/2024 18:00

3. Section Data

3.1. Depths and Deviation



3.2. Casing Information

Table 4: Casing Depths and Information

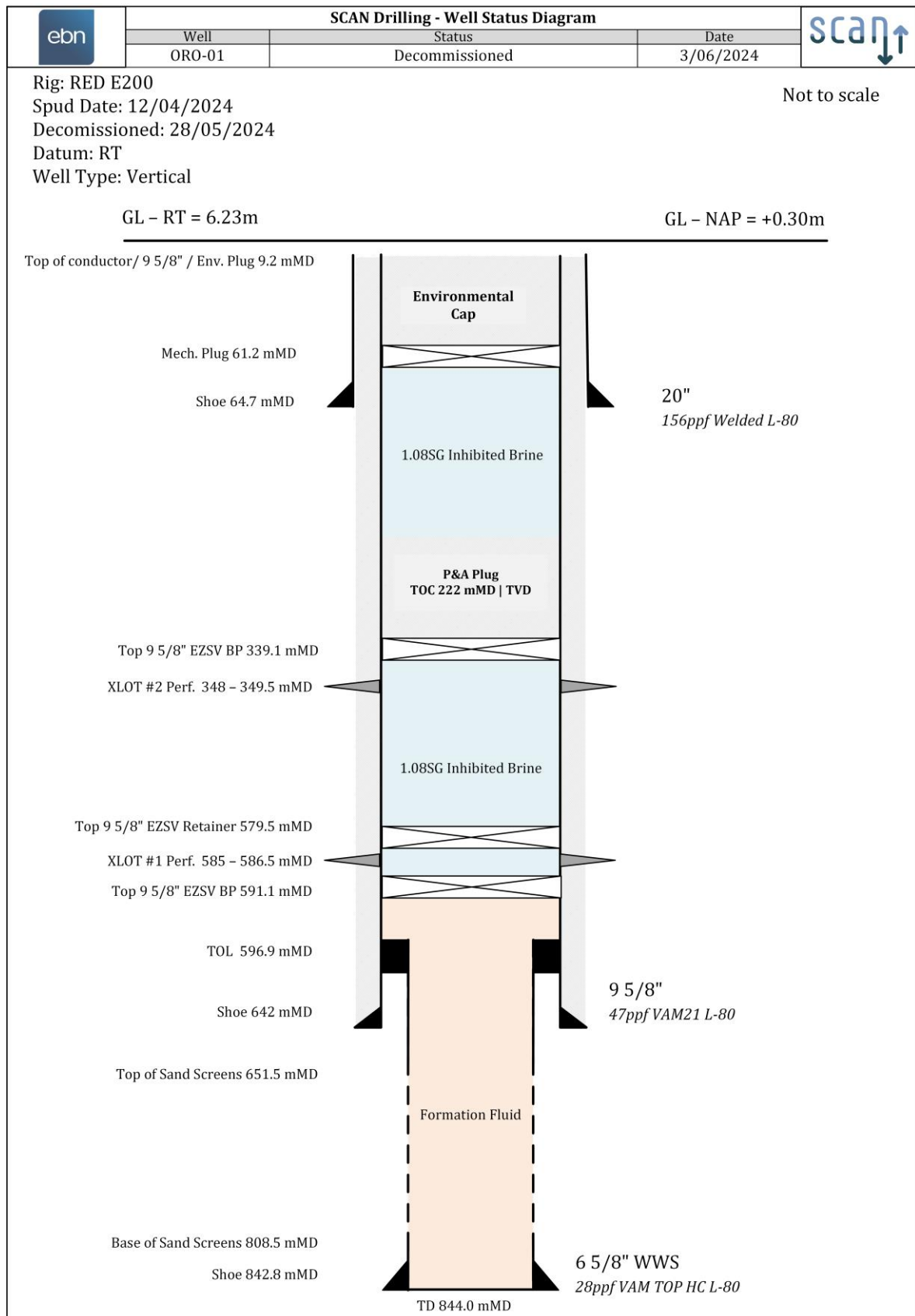
Casing Size (inch)	Weight (ppf)	Connection	Material	Shoe depth mMDRT	Shoe Depth mTVDRT	Top Depth As Run mMDRT
20"	156	Welded	L-80	64.73	64.73	7.20
9 5/8"	47	VAM 21	L-80	641.74	641.73	7.17
6 5/8" WWS	28	VAM TOP HC	L-80	842.75	842.74	596.92

3.3. Cementing Information

Table 5: Cementing Information

Section	Weight & Grade	Lead Vol (m ³)	TOC mMDRT	Weight & Grade	Tail Vol (m ³)	TOC mMDRT	Verification
9 5/8" Casing	1.35sg HOZlite	40.0	Surface	1.77SG HOZlite	7.7	509.9	Monitored returns. Confirmed cement at surface. No losses observed
Abandonment Plug	Set above cement retainer @ 339.1 mMDRT			1.90SG Class G	4.5	222.0	Tagged 10mT with 8.5" Bit
Environmental Plug	Set above mechanical plug @ 55.0 mBGL			2.64SG CEM I 52.5 R	2.5	3.1 mBGL	Tagged 50kg with 2" pole

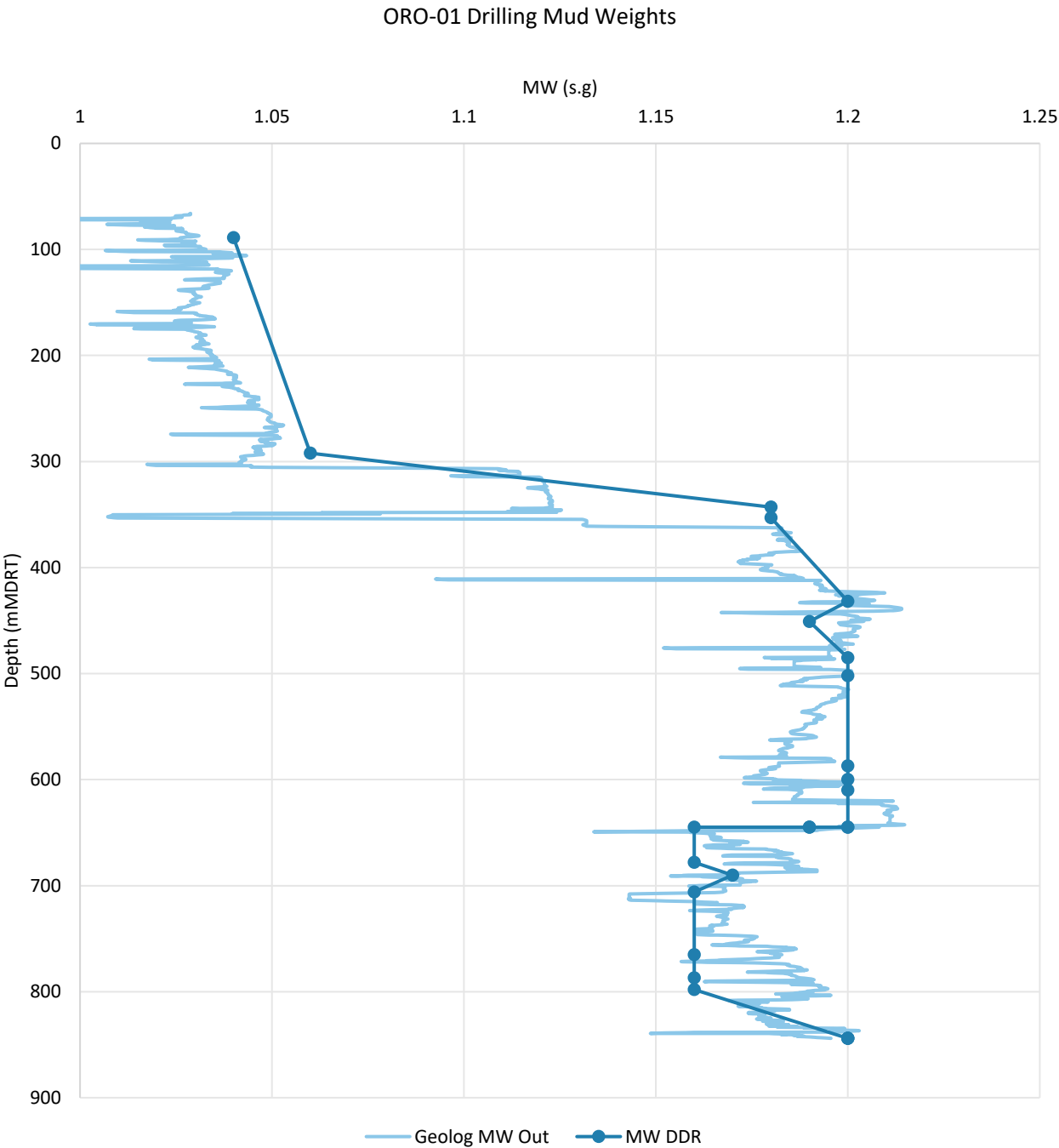
3.4. Well Schematic



3.5. Drilling Mud

Table 6: Drilling Mud Information

Section	Type	Start Depth (mMDRT)	End Depth (mMDRT)	Weight (SG)
12 ¼"	FW Polymer	0	305	1.04 – 1.06
12 ¼"	KCl Glydrill	305	645	1.18 – 1.20
8 ½"	KCl FloPro	645	844	1.16 – 1.20



4. Geological Data

4.1. Formation Tops

Table 7: Formation Tops

Group	Formation	Member	mMDRT	mTVDNAP	mTVDBRT
Upper North Sea	Undifferentiated	-	6.2	-0.3	6.2
	Maassluis	-	55.8	49.3	55.8
	Oosterhout	-	119.5	113.0	119.5
	Breda	-	227.8	221.3	227.8
Middle North Sea	Rupel	Boom	293.6	287.1	293.6
		Berg	428.0	421.4	428.0
	Lower North Sea	Dongen	Asse	549.8	543.3
Brussels Sand			634.5	628.0	634.5
Ieper			803.9	797.4	803.9
Well TD			844.0	837.5	844.0

4.2. Fracture Pressures

Table 8: Leak off tests and formation integrity tests

Section	Depth		Stratigraphy	Test Type	MW	EMW
	mMDRT	mTVDRT			SG	
8 ½"	648	648	Brussels Sand Mb	FIT	1.19	1.38

4.3. Formation Pressures

Throughout the well no indications for abnormal pressures, such as pressure cavings or gains, have been observed. For this reason, the formation pressure throughout the well is interpreted to be below the ECD. As part of the well test, formation-pressure measurements of the Brussels Sand Member reservoir have been acquired. Following the production test, the downhole pressure gauge at a depth of 581.9 mTVDNAP indicated a pressure of 59.6 bar(a).

4.4. Hydrocarbons

4.4.1 Average gas peaks

Table 9 shows a summary of the average gas readings per stratigraphic interval. No significant gas peaks were recorded.

Table 9: Average Gas Readings

Group	Formation	Member	Interval		Total Gas	C ₁	C ₂	C ₃	iC ₄	nC ₄	iC ₅	nC ₅
			mAH		%	ppm						
Upper North Sea	Undifferentiated		6.2	55.8	Gas detection system not installed due to pre-drill installation of the conductor							
	Maassluis	-	55.8	119.5	0.0001	13	3	4	4	7	7	3
	Oosterhout	-	119.5	227.8	0.0000	6	4	3	4	7	6	4
	Breda	-	227.8	293.6	0.0000	5	3	3	4	8	7	3
Middle North Sea	Rupel	Boom	293.6	428.0	0.0001	6	4	4	3	8	6	3
		Berg	428.0	549.8	0.0002	8	4	3	4	7	6	3
Lower North Sea	Dongen	Asse	549.8	634.5	0.0003	8	4	3	4	7	6	3
		Brussels Sand	634.5	803.9	0.0002	12	4	5	4	8	8	3
		Ieper	803.9	844.0	0.0001	7	4	3	4	7	6	3

4.4.2 Oil Shows

No oil shows were observed in the cuttings returns.

4.5. Cored intervals

Table 10: Cored intervals

Core #	Stratigraphy	Top	Bottom	Cut	Recovery	
		mAH		m	m	%
1	Boom Mb	343.8	353.5	9.7	9.3	98.0
2	Berg Mb	432.0	441.4	9.4	8.6	92.0
3	Berg Mb	441.4	451.0	10.0	9.5	99.2
4	Berg Mb	474.0	483.5	9.5	9.4	98.5
5	Berg Mb	483.5	493.0	9.5	7.9	82.7
6	Berg Mb	493.0	502.0	9.0	8.9	99.4
7	Asse Mb	578.0	587.0	9.0	2.2	24.4
8	Asse Mb	599.9	609.0	9.1	9.1	100.0
9	Brussel Sand Mb	664.0	670.7	6.7	5.2	78.0
10	Brussel Sand Mb	670.7	678.2	7.5	5.8	77.0
11	Brussel Sand Mb	678.2	686.8	8.6	7.8	90.0
12	Brussel Sand Mb	686.8	690.4	3.6	3.1	87.0
13	Brussel Sand Mb	690.4	699.5	9.0	7.9	87.0
14	Brussel Sand Mb	699.5	706.5	7.0	5.2	74.0
15	Brussel Sand Mb	706.5	713.7	7.2	6.8	93.0
16	Brussel Sand Mb	771.3	780.3	9.0	8.9	98.0
17	Brussel Sand Mb	780.3	789.3	9.0	9.0	100.0
18	Brussel Sand Mb	789.3	798.3	9.0	9.0	100.0

4.6. Production and Injection Testing

The well was produced across the Brussels Sand Mb with sand screens between 808.51m and 651.47m. A total of 1084 m³ formation water was produced to surface over all production tests and stored for later injection back into the formation.

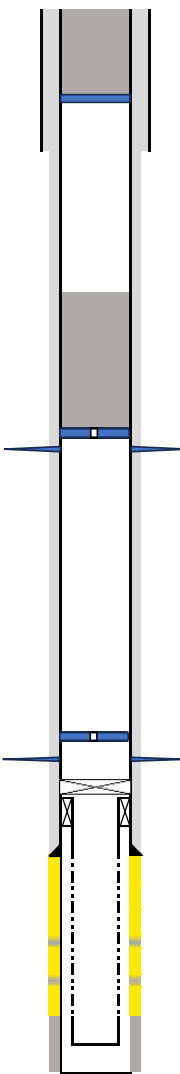
Table 11: Flow Periods and Shut In

Date	Time	Wellhead Temp. Deg C	Wellhead Pres. barg	Nitrogen Inflow scf/min	Production Rate Nm ³ /h	Cuml. Production m ³	Comments
09/05/2024	20:00	20.2	4.9	0	0	0	
09/05/2024	22:00	16.8	5.69	394	8	0	Start cleanout
10/05/2024	00:00	25.7	14.98	1306	36	76	
10/05/2024	02:00	29.1	7.64	774	37	145	
10/05/2024	04:00	20.9	1.12	0	0	161	
10/05/2024	06:00	21.5	0.39	0	2	171	
10/05/2024	08:00	16.1	0.15	0	0	175	
10/05/2024	10:00	20	4.64	0	0	178	
10/05/2024	12:00	29.4	9.31	894	49	262	Start production (gaslift)
10/05/2024	14:00	29.7	5.41	1987	100	400	
10/05/2024	16:00	29.9	6.13	2764	107	599	
10/05/2024	18:00	29.9	6.39	2958	111	817	
10/05/2024	20:00	25.3	36.78	0	0	904	Buildup
10/05/2024	22:00	20.2	43.4	0	0	904	
11/05/2024	00:00	16.6	43.79	0	0	904	
11/05/2024	02:00	14.6	44.07	0	0	904	
11/05/2024	04:00	13.3	44.28	0	0	904	
11/05/2024	06:00	12.3	44.45	0	0	904	
11/05/2024	08:00	12	2.85	0	0	905	
11/05/2024	10:00	20.7	0.16	0	0	914	
11/05/2024	12:00	21.7	0	0	0	914	
11/05/2024	14:00	23.6	0	0	0	914	
11/05/2024	16:00	26.4	0	0	0	914	
11/05/2024	18:00	26.8	0	0	0	914	
11/05/2024	20:00	24.9	0	0	0	914	
11/05/2024	22:00	21.9	0	0	0	914	
12/05/2024	00:00	19.4	0	0	0	914	
12/05/2024	02:00	17.7	0	0	0	914	
12/05/2024	04:00	16.2	0	0	0	914	
12/05/2024	06:00	14.6	0	0	0	914	
12/05/2024	08:00	15	0	0	0	914	
12/05/2024	10:00	19.1	0	0	0	914	
12/05/2024	12:00	23	0	0	0	914	
12/05/2024	14:00	25.9	0	0	0	914	
12/05/2024	16:00	29.7	0	0	0	914	
12/05/2024	18:00	32.1	0	0	0	914	
12/05/2024	20:00	25.2	-0.05	0	0	914	
12/05/2024	22:00	24.2	-0.07	0	0	914	
13/05/2024	00:00	27.9	2.33	659	36	960	Production (gas lift)
13/05/2024	02:00	22.7	1.83	0	0	983	Buildup
13/05/2024	04:00	19.3	0.05	0	0	983	
13/05/2024	06:00	18	0.02	0	0	983	
13/05/2024	08:00	18.1	1.27	0	0	983	
13/05/2024	09:45	23.6	10.75	0	-52	964	Injection

Date	Time	Wellhead Temp. Deg C	Wellhead Pres. barg	Nitrogen Inflow scf/min	Production Rate Nm ³ /h	Cuml. Production m ³	Comments
13/05/2024	12:00	26.4	0	0	0	951	Fall-off
13/05/2024	14:00	27	0	0	0	951	
13/05/2024	16:00	28.6	0	0	0	951	
13/05/2024	18:00	29.5	0	0	0	951	
13/05/2024	20:00	29.4	0	0	0	951	
13/05/2024	22:00	26.8	0	0	0	951	
14/05/2024	00:00	22.5	0	0	0	951	
14/05/2024	02:00	19.7	0	0	0	951	
14/05/2024	04:00	17.5	0	0	0	951	
14/05/2024	06:00	15.9	0	0	0	951	
14/05/2024	08:00	16.6	0	0	0	951	
14/05/2024	10:00	20.5	0	0	0	951	
14/05/2024	12:00	25.2	0	0	0	951	
14/05/2024	14:00	28.2	0	0	0	951	
14/05/2024	16:00	32.8	0	0	0	951	
14/05/2024	18:00	33	0	0	0	951	
14/05/2024	20:00	28.1	0	0	0	951	
14/05/2024	22:00	23.2	0	0	0	951	
15/05/2024	00:00	20.3	0.02	0	0	951	
15/05/2024	02:00	21.5	53.75	0	0	951	
15/05/2024	04:00	25.6	2.32	0	21	986	Production (jet pump)
15/05/2024	06:00	26.4	9.08	0	0	1017	Buildup
15/05/2024	08:00	22.7	7.96	0	0	1017	
15/05/2024	10:00	27.7	2.39	0	22	1045	Production (jet pump)
15/05/2024	12:00	29.2	2.18	0	0	1084	Buildup
15/05/2024	14:00	29.3	2.55	0	0	1084	
15/05/2024	16:00	-	150	0	0	1084	
15/05/2024	18:00	-	0	0	0	1084	
15/05/2024	20:00	-	0	0	0	1084	
15/05/2024	22:00	-	0	0	0	1084	
16/05/2024	00:00	-	0	0	0	1084	
16/05/2024	02:00	14.6	0	0	0	1084	
16/05/2024	04:00	14.8	-0.02	0	0	1084	
16/05/2024	06:00	14.9	-0.48	0	0	1084	
16/05/2024	08:00	16.5	-0.49	0	0	1084	
16/05/2024	10:00	21.4	0.65	0	0	1022	
16/05/2024	12:00	21.4	11.18	0	-54	981	Injection
16/05/2024	14:00	25.6	-0.33	0	0	967	Fall-off
16/05/2024	16:00	21.6	12.57	0	-52	901	Injection
16/05/2024	18:00	21.8	17.9	0	0	861	Fall-off
16/05/2024	20:00	21.4	0.02	0	0	754	Fall-off
16/05/2024	22:00	22.2	25.71	0	-90	654	Injection
17/05/2024	00:00	21.5	38.23	0	-122	454	Injection
17/05/2024	02:00	18.1	19.67	0	0	320	Fall-off
17/05/2024	04:00	15.0	0	0	0	320	Fall-off
17/05/2024	06:00	15.0	0	0	0	320	Fall-off
17/05/2024	08:00	15	0	0	0	320	
17/05/2024	10:00	15	0	0	0	320	
17/05/2024	12:00	15	0	0	0	320	
17/05/2024	14:00	18.2	35.1	0	-107	214	Injection
17/05/2024	16:00	19.4	34.8	0	-107	104	Injection
17/05/2024	18:00	20.1	33.7	0	-107	0	Injection
17/05/2024	20:00	16.0	0	0	0	0	
17/05/2024	22:00	15.0	0	0	0	0	

5. Well Status

5.1. Decommissioned Well Schematic

Stratigraphic sequence				Flow zone	Mechanical well data	Cement & fluids	Depth	Depth	ORO-01	Operations summary
Groups	Formations	Fm. Top (RT) mAH	Fm. Top (NAP) mTVD				(RT) mAH	(NAP) mTVD		
U. NSG	Waalre/Peize				Ground level			-0.30		An environmental plug was placed, and the conductor and surface casing cut at a depth of 3 meters below ground level as part of the location restoration. Top Cement Plug (Environmental Plug) verification: visually and with a 5cm diameter stick to 50 kg.
	Maassluis	55.8	49.3		Cut 20" conductor and 9 5/8" surface casing	Cement plug 2 - top		2.70		
						Cement plug 2 - base		2.80		
								54.70		
	Oosterhout	119.5	113.0		Mechanical support environmental plug - top			54.70		Cement retainer #2 was set inside the 9 5/8" casing to allow formation stress testing of the Boom caprock of the North Sea group and subsequently provide the necessary mechanical support for the decommissioning plug.
					20" conductor, 0.87" WT, SAWL450/X65		64.73	58.20		
	Breda	227.8	221.3			1.08 s.g. decomp. brine				
						Cement plug 1 - top	222.00	215.47		
M. & L. NSG	Boom	293.6	287.1	Caprock	Cement retainer #2 - top					The decommissioning plug was tagged with 10 mT following the guidance provided by NOGEPa Std. 45. Assessed residual risks: On seismic data towards the north of the well location the Asse clastone overlaying the Brussels formation is completely truncated, resulting in hydraulic connection between the Berg and the Brussels Sand Formations. The wall-to-wall barrier along the Boom formation, above the potential Brussels and Berg Sandstone flow zones (consisting of cement plug 1 and the annulus cement) is appropriate for both formations. Bridge plug #1 and retainer #1 were set inside the 9 5/8" to allow formation stress testing of the Asse caprock. On basin level the Boom is the common caprock which was used for decommissioning purposes.
					XLOT perforation	Cement plug 1 - base	339.13	332.60		
	Berg	428.0	421.4	Possible			348.00	341.47		
						1.08 s.g. decomp. brine				
	Asse	549.8	543.3	Caprock	Retainer #1 - top		579.53	573.00		
					XLOT perforation		585.00	578.47		
					Bridge plug #1 - top		591.13	584.60		
					7" top of liner		596.92	590.39		
	Brussel	634.5	628.0	Possible	9 5/8" production casing, 47#, L-80		641.74	635.21		
					Test interval 1 (top screens)		651.47	644.94		
						1.03 s.g. formation fluid				
					Test interval 1 (base screens)		808.51	801.98		
					6 5/8" production liner		842.75	836.22		
	Ieper	803.9	797.4	Caprock	TD		844.00	837.47		

*Diagram not to scale

6. Appendix

6.1. Deviation Data

MDRT	INC	AZI	TVDRT	NS	EW	VS	DLS
m	deg	deg	m	m	m	m	deg/30m
0	0	0	0	0	0	0	0
65	0	0	65	0	0	0	0
82	0.95	35.05	82	0.12	0.08	0.12	1.68
97.5	0.75	36.47	97.5	0.3	0.22	0.3	0.39
115.9	0.89	35.84	115.9	0.51	0.37	0.51	0.23
143.8	0.69	38.27	143.79	0.82	0.6	0.82	0.22
161.8	0.66	41.59	161.79	0.99	0.74	0.99	0.08
180.3	0.53	46.01	180.29	1.12	0.87	1.12	0.22
198.4	0.5	37.16	198.39	1.25	0.98	1.25	0.14
216.8	0.45	39.55	216.79	1.36	1.07	1.36	0.09
236.2	0.38	41.38	236.19	1.47	1.16	1.47	0.11
255.4	0.25	33.44	255.39	1.55	1.23	1.55	0.21
275	0.22	29.16	274.99	1.62	1.27	1.62	0.05
294	0.19	50.78	293.99	1.67	1.31	1.67	0.13
313.8	0.19	36.13	313.79	1.72	1.36	1.72	0.07
331.2	0.19	40.72	331.19	1.77	1.39	1.77	0.03
338	0.14	17.3	337.99	1.78	1.4	1.78	0.37
357.5	0.2	18.01	357.49	1.84	1.42	1.84	0.09
376.7	0.17	51.06	376.69	1.89	1.45	1.89	0.17
396.2	0.2	40.98	396.19	1.93	1.5	1.93	0.07
415.2	0.19	24.09	415.19	1.99	1.53	1.99	0.09
433.9	0.17	25.78	433.89	2.04	1.56	2.04	0.03
453.5	0.2	16.2	453.49	2.1	1.58	2.1	0.07
472.8	0.14	34.67	472.79	2.15	1.6	2.15	0.13
492.3	0.22	26.84	492.29	2.2	1.63	2.2	0.13
511.6	0.12	39.12	511.59	2.25	1.66	2.25	0.16
530.9	0.14	43.74	530.89	2.28	1.69	2.28	0.04
550.3	0.06	40.63	550.29	2.31	1.71	2.31	0.12
566.3	0.09	34.86	566.29	2.33	1.73	2.33	0.06
587.9	0.12	38.76	587.89	2.36	1.75	2.36	0.04
608.6	0.18	38.22	608.59	2.4	1.78	2.4	0.09
628.2	0.06	58.29	628.19	2.43	1.81	2.43	0.19
633.1	0.09	39.9	633.09	2.43	1.82	2.43	0.23
652.8	0.12	97.21	652.79	2.44	1.85	2.44	0.16
672.7	0.19	127.92	672.69	2.42	1.89	2.42	0.16
692.1	0.19	155.42	692.09	2.37	1.93	2.37	0.14
711.5	0.12	123.36	711.49	2.33	1.96	2.33	0.17
730.8	0.09	113.93	730.79	2.31	1.99	2.31	0.05
750.3	0.12	118.52	750.29	2.3	2.03	2.3	0.05
760.1	0.19	129.27	760.09	2.28	2.05	2.28	0.23
769.6	0.19	124.08	769.59	2.26	2.07	2.26	0.05
788.9	0.25	127.46	788.89	2.22	2.13	2.22	0.1
808.4	0.2	117.98	808.39	2.18	2.2	2.18	0.1
832.8	0.25	114.4	832.79	2.14	2.28	2.14	0.06
844	0.25	114.4	843.99	2.12	2.33	2.12	0

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