End of Job Report

MSD-GT-01 perforating

April 2024

Conform Mijnbouwregeling article 8.2.2.2 and Bijlage 12

Authorisation

Function	Name	Date	Signature
Drilling Manager	G. Schurink	27-5-2024	[redacted]
Plaatsvervangend drilling manager	B.J. Koers	27-5-2024	

colofon.

kenmerk	EOJR MSD-GT-01
status	Final
versie	V1
auteur(s)	B.J. Koers
datum	27 mei 2024

Contents

1 Project Details

1.1 Organisation

Project Director	Marco van Soerland
Project Manager	Geert van Ek
Drilling Manager	Gerrit Schurink
Plaatsvervangend Drilling Manager	Bert Jan Koers
Sr. Production Engineer	Axel Sanden
Production Engineer	Sander Maat
HSE Manager	Peter v.d. Burg

Well Site Supervisors:

Well Site Supervisor (day)	Mark de Jong	15-04-2024 / 19-04-2024
Well Site Supervisor (night)	Johan Schutte	15-04-2024 / 19-04-2024

1.2 Operational summary

Field	Maasdijk	
Well Number:	MSD-GT-01	
Well Name	MAASDIJK-GT-01	
Well Type	Geothermal producer	
Start operations **End of operations**	15-04-2024; 07:00 hr 19-04-2024; 07:00 hr	
Days Operational	4,5 days	
Operator	HVC Aardwarmte Maasdijk B.V.	
Surface coordinates	X: 73.456,45 (RD) Y: 442.449,68 (RD)	N 51° 57.869 (ETRS89) E 004° 12.040 (ETRS89)
Surface elevation (Ground level)	+1.40 m above NAP	

1.3 Equipment & Contractors

Main Contractor

Well Services Group	:	Coiled tubing and nitrogen services
Equipment	:	2” Coiled Tubing

Other contractors

Expro	:	Perforation (TCP)
Boekestijn	:	Crane

1.4 Objectives

Project objectives:

- Perforate reservoir interval in two runs using TCP guns.

1.5 Summary of operations

Rigged up 2” intellect coil tubing unit, spotted extra tower to support injector head while running perforations guns. Installed 7 1/16” BOP and pressure tested against 9” master valve.

RIH coil to 800m, created 30bar underbalance by removing 25m3 of 1.08s.g. brine by reverse circulation through the coil. Nitrogen was injected into the casing x coil annulus with coil at 800m depth.

Removed CT top frame and 2x middle box for easier running guns. RIH 4.5” TCP guns as per loading sheet (appendix 1). RIH guns and tagged HUD at 3217.8m. Pulled up and correlated with gamma ray. Spaced out guns, pressured up coil to 215bar and noticed pressure drop indicating guns fired. Directly started POOH at 20m/min. Performed pressure log at 400m (gauge depth 262,36m) for 20min, gauge

reading showed stable pressure of 19 bar. Based on the gauge data the static fluid level is at 83m. POOH to surface and laid out fired TCP guns, all guns fired. See appendix 6.3 for the pressure plot during the perforation run.

RIH TCP guns (run 2) and spaced out using gamma ray. Pressured up to 210 bar and observed pressure drop indicating guns fired. POOH to 400m and took pressure log for 30min (gauge depth 329m). Stable pressure of 26 bar, calculation proofs static fluid level at 84m. POOH to surface and laid down guns. All guns fired and in good condition. See appendix 6.4 for the pressure plot during the perforation run. Closed 9” swab valve and moved CT equipment to MSD-GT-02.

2 Well data

2.1 Depth reference and total depth

Used depth reference	: Ground Level
Elevation: Ground level – NAP	: +1.40 m (ground level lays above NAP)
Well total depth	: 3297mMD / 2917mTVD

2.2 Deviation plots

See drilling EOWR.

2.3 Casing scheme

Table 1. Casing details

Item OD [in]	Top (m MD)	Bottom (m MD)	Weight	Grade	Connection
24" conductor	0	145	0,5" WT	S355	Welded
13 ⅜" Casing	0	1153	68 #	L80	VAM TOP
10 ¾" GRE lined csg	0	958	51/57.4 #	L80	VAM TOP
9 ⅝" GRE lined csg	958	2839	47/51,9 #	L80	VAM TOP
9 ⅝" Cr13 casing	2839	3281	47#	L8013Cr	VAM TOP
9 ⅝" L80 casing	3281	3305	47#	L80	VAM TOP

Table 2. Cement details

Item	TOC (m MD)	Lead Slurry Volume (m^3)	Lead Slurry Weight (s.g.)	Tail Slurry Volume (m^3)	Tail Slurry Weight (s.g.)	Type
13 ⅜" Casing	Surface	103.5	1,35	14.7	1,60	HOZ Lite lead and HOZ tail
10 ¾" x 9⅝" Casing	1218 (confirmed by RBT log)	61.7	1,35	20.4	1,84	HOZlite lead HMR+ tail

2.4 Cement log evaluation

Table 3. Summary of cement job results

Section	Cement job	TOC (mAH GL)	Comments
10 ¾" x 9⅝" Casing	Partial returns	1218	Some losses during cement job, intervals with good bonding present. Some signs of channeling but could be of GRE lining. Good cement over the following (sealing) layers; Upper Holland Marl, Middle Holland Claystone, Lower Holland Marl, Vlieland Clay, Rodenrijs Claystone and Alblasserdam. TOC in top Ommelanden.

Table 4. RBT log interpretation vs. formation and rock type

Formation	Rock type	Bond quality	Remarks
Ommelanden	aquitard	Partial	Top of cement: 1218mMD BGL.
Texel Marl	reservoir	Partial	
U Holand Marl	aquitard	Good	
M Holland Clay	seal rock	Good	
Holland Greensand	reservoir	Partial	
L Holland Marl	aquitard	Good	
Lier Sand	reservoir	Partial	
Vlieland Clay	seal rock	Good	
Berkel Clastics	reservoir	Partial	
Rijswijk Sandstone	reservoir	Partial	
Rodenrijs Claystone	seal rock	Good	
Alblasserdam	reservoir	Good	Tail slurry 1,84 s.g. HMR+

Full RBT log can be found in attachment 6.6.

2.5 Well schematic – post job

Nr.	Item Description All depths from GROUND LEVEL *ORT= +9,34m above ground level* *RT= +10,72m above NAP*	MSD-GT-01 Geothermal Producer	Depth m tvd	Depth m ah	Hole ID in	Pipe OD in	Collar OD in (nom)	Pipe ID in	Pipe ID in (drift)	Geology m tvd	Geology m ah	
1	24" Conductor	Fluid level @84m 1,08 s.g.	146	146		24,000	welded	23,000	-			North Sea Group
	Kick-off point		891	891								
										898	898	Chalk Group
3d	10 3/4" 51# L80 VAMTOP - GRE Lined (57.4#) 2x Swell packers		949	949 1044		10,750	11,488	9,350	9,225			
2	13 3/8" 68# L80 VAMTOP Casing		1142	1143	16,00	13,375	14,176	12,415	12,259			
	Top of cement		1214	1218								
										1660	1700	KN (Holland)
	End of build at 40° inclination		2037	2174								
										2056	2199	KN (Vlieland)
3c	9 5/8" 47# L80 VAMTOP - GRE Lined (51.9#)		2534	2830	12 1/4"	9,625	10,396	8,250	8,125	2489	2772	Schieland Group
										Top Alblasserdam		
			2561	2863	Top Perforations (run 2)					2553	2855	
			2610	2927	Bottom Perforations (run 2)							
			2738	3085	Top Perforations (run 1)							
			2847	3215	Bottom Perforations (run 1)							
3b	9 5/8" 47# L80 VAMTOP 13%Chrome											
			2847	*3218*	*HUD (Coil tubing - 18-04-2024)*					2880	3256	Altena
	Top of float collar		2870	3272	12 1/4"	9,625	t.b.d.	8,681	8,525			
3a	9 5/8" 47# L80 VAMTOP (2 joint shoetrack)		2900	3295	12 1/4"	9,625	10,396	8,681	8,525			
*Not in scale.			2917	3297	TD							

3 Drilling fluid summary

Not applicable. Well filed with 1.08s.g. brine.

4 Geology

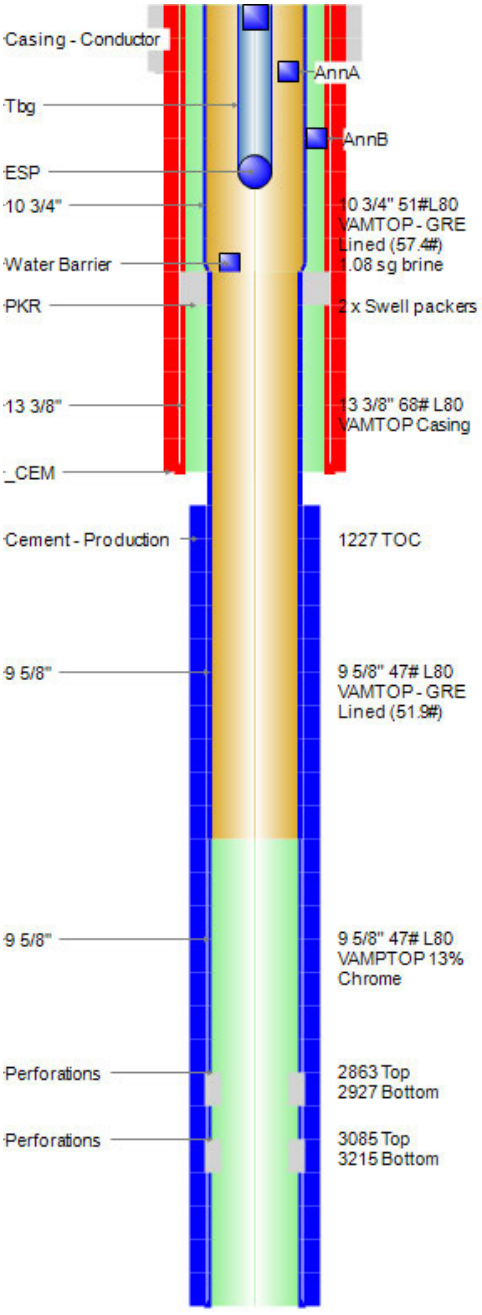
Not applicable – refer to drilling end of well report.

5 Well completion

5.1 Well status

Well is suspended with 1.08 s.g. formation brine. Horizontal mastervalve (7 1/16'' 3k ball valves with blind flange) and 2 1/16'' 3k side outlet valves are installed. A temporary 9" 3k ball valve is installed on top of the wellhead. This will be removed once the ESP installation will be done.

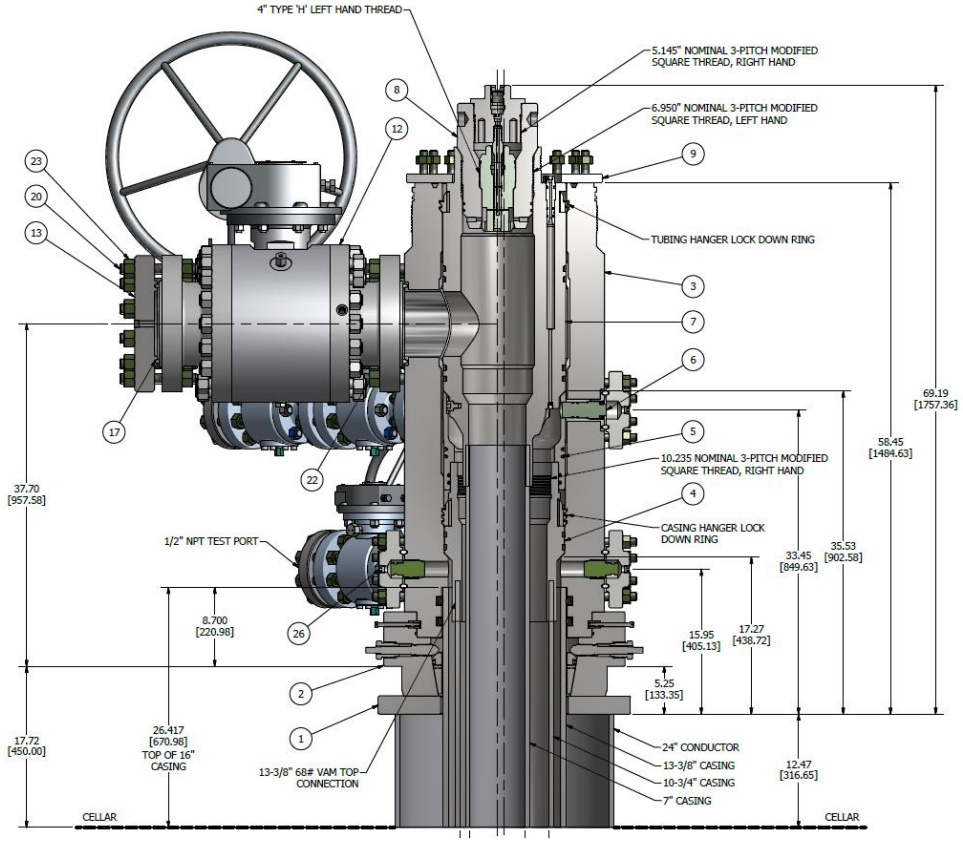
5.2 Well barrier schematic

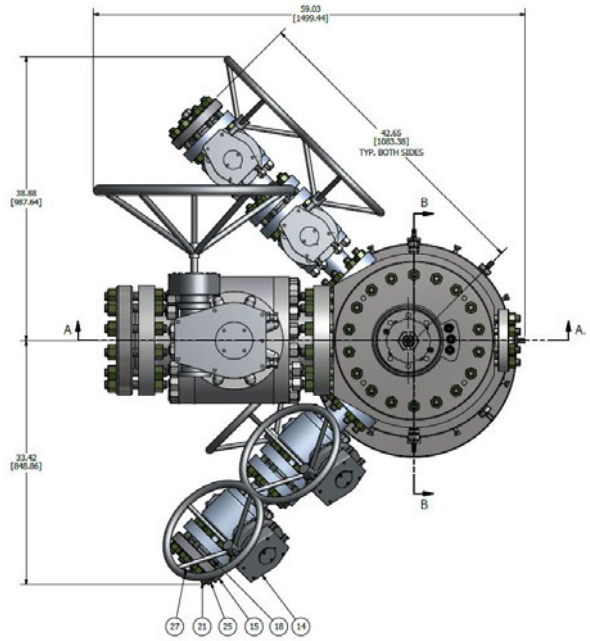


	Scoring Group
	Primary
	Secondary

5.3 Wellhead drawing

Note: A temporary adapter + 9” 3K ball valve is installed, this will be removed when the ESP will be installed.





PARTS LIST			
ITEM	PART NUMBER	DESCRIPTION	MATERIAL
1	05-101531-MA	24" x 13-5/8" Eccentric Base Plate	8630
2	05-101139-AS	13-5/8" Slip Housing	8630
3	05-10137-AS	13-5/8" Wellhead Housing	8630 with Inconel 625 Clad
4	05-101140-AS	10-3/4" Casing Hanger	F6NM
5	05-101290-AS	Landing Sub	F6NM
6	05-101336-AS	Landing Sub Anti-Rotation Plug	F6NM
7	05-101666-AS	7" Tubing Hanger	F6NM
8	05-101168-AS	Tubing Hanger Blanking Plug	F6NM
9	05-101143-FM	Wellhead Top Plate	Steel, Carbon
10	09-101313-PP	9", 3 KSI Ball Valve.	Carbon Steel with 316 Stainless Steel Clad
11	05-101324-FM	9" 3K Blind Flange	Steel, Carbon
12	09-101312-PP	7-1/16", 3 KSI Ball Valve.	Carbon Steel with 316 Stainless Steel Clad
13	05-101356-FM	7-1/16" 3K Blind Flange	Steel, Carbon
14	09-101311-PP	2-1/16", 3 KSI Ball Valve	Carbon Steel with 316 Stainless Steel Clad
15	SK20349	2.06", 3K Blind Flange for HXTS (FM)	Carbon Steel
16	SK20352-49	R49 Type R Ring Gasket (PP)	Stainless Steel
17	SK20352-45	R45 Type R Ring Gasket (PP)	Stainless Steel
18	SK20352-24	R24 Type R Ring Gasket (PP)	Stainless Steel
19	SK20304-20	All Threaded Stud Bolt 1-3/8"-8 UN x 9-1/2" Long	Steel, High Strength Low Alloy
20	SK20304-17	All Threaded Stud Bolt 1-1/8"-8 UN x 8-1/2" Long (PP)	Steel, High Strength Low Alloy
21	SK20304-03	All Threaded Stud Bolt 7/8"-9 UNC x 6-1/2" Long (PP)	Steel, High Strength Low Alloy
22	SK20306-17	Tap End Stud 1-1/8"-8 UN x 5-7/8" Long (PP)	Steel, High Strength Low Alloy
23	SK20004-11	Heavy Hex Nut 1-1/8"-8 UN (PP)	Steel, Mild
24	SK20004-15	1-3/8"-8 UN Heavy Hex Nut	Steel, Mild
25	SK20004-09	7/8 - 9 UNC HEAVY HEX NUT (PP)	Steel, Mild
26	SK20222-05	1/2" NPT LEVL Plug (PP)	Stainless Steel, Austenitic
27	SK20104	Autoclave Blow Down Plug (PP)	Carbon Steel

5.4 Completion schematic

Not applicable.

6 Appendixes

6.1 TCP toolstring run 1

Job Number	Client	Rig	Well Number	Field / Block	Date
	HVC	WSG Coil	MSD-GT-01 RUN 1	Maasdijk Geothermal	16-4-2024

Run No.	Revision No.	Perforating / Test Interval(s)	Max. Deviation	Max. BHT	Max. BHP	Completion Fluid Type	Weight	Cushion Fluid Type	Weight
1			40	200F		CaCl	9.01		

Casing / Liner Description	Top Depth	Bottom Depth	Nominal ID (in.)	Drifted ID (in.)	Weight	Grade	Pipework Description	ID (in.)	Weight	Grade	Yield
10 3/4 GRE Lined csg	0	949			51/57.4#	L80	2in Coil				
9 5/8" GRE Lined csg	949	2830			47/51.9#	L80					
9 5/8" Cr13 Casing	2830	3295			47#	L80					

Diagram annotations	Layout	Item	Equipment Description	Details	Supplier	Serial No.	Connection Top	Connection Bottom	OD (in.)	ID (in.)	Volume ID (CUM)	Length	Depth (MD) Top	Depth (MD) Bottom
											m3	m	m	m
		43												
		12	2" Coil		WSG		N/A		2.000				3,073.00	3,073.00
		13	Inline connector		WSG				2.000			0.12	3,073.00	3,073.12
		14	Straight Bar		WSG		1.5" AMT Box	1.5"AMT Pin	2.650			0.70	3,073.12	3,073.82
		15	intelleCT cable connector		WSG		1.5" AMT Box	1.5"AMT Pin	2.650			0.67	3,073.82	3,074.49
		16	Motor Head Assembly		WSG		1.5" AMT Box	1.5"AMT Pin	2.650			0.45	3,074.49	3,074.94
		17	intelleCT Quick Coupling	2 x .197 ports	WSG		1.5" AMT Box	1.5"AMT Pin	2.650			0.56	3,074.94	3,075.50
		18	Gauge Carrier GR/CCL		WSG		1.5" AMT Box	1.5"AMT Pin	2.650			3.04	3,075.50	3,078.54
		19	Bypass Gauge Carrier Press/Temp		WSG		1.5" AMT Box	1.5"AMT Pin	2.650			0.92	3,078.54	3,079.46
		20	Cossover 1.5" AMT to 2 3/8 PAC		WSG		1.5" AMT Box	2 3/8 PAC Pin	2.875			0.13	3,079.46	3,079.59
		21	CarSac		WSG		2 3/8 PAC Box	2 3/8 PAC Pin	2.875			0.67	3,079.59	3,080.26
		22	Crossover 2 3/8PAC to 2 3/8 EUE		WSG		2 3/8 PAC Box	2 3/8 EUE 8rd	2.875			0.18	3,080.26	3,080.44
		23	Auto Vent Pressure Activated Firing Head		Expro		2 3/8 EUE 8rd Box	2.75 6P Acme Box	3.500	N/A	N/A	0.45	3,080.44	3,080.89
		24	4.5" Partial Blank, Saftey Spacer	Roller Sub OD 6.39	Expro	0000042	2.75 6P Acme Pin	3.94 6P Acme Box	4.500	N/A	N/A	3.81	3,080.89	3,084.70
			4.5" Partial Loaded 39SPM GH TCP Gun P-P									1.76	3,084.70	3,086.46
		23	4.5" Fully Loaded 39SPM GH TCP Gun P-B	Roller Sub OD 6.39	Expro	0000012	3.94 6P Acme Pin	3.94 6P Acme Box	4.500	N/A	N/A	5.63	3,086.46	3,092.09
		22	4.5" Fully Loaded 39SPM GH TCP Gun P-B	Roller Sub OD 6.39	Expro	0000016	3.94 6P Acme Pin	3.94 6P Acme Box	4.500	N/A	N/A	5.63	3,092.09	3,097.72
		21	4.5" Fully Loaded 39SPM GH TCP Gun P-B	Roller Sub OD 6.39	Expro	0000015	3.94 6P Acme Pin	3.94 6P Acme Box	4.500	N/A	N/A	5.63	3,097.72	3,103.35
		20	4.5" Fully Loaded 39SPM GH TCP Gun P-B	Roller Sub OD 6.39	Expro	0000020	3.94 6P Acme Pin	3.94 6P Acme Box	4.500	N/A	N/A	5.63	3,103.35	3,108.98
		19	4.5" Partial Loaded 39SPM GH TCP Gun P-P	Roller Sub OD 6.39	Expro	0000048	3.94 6P Acme Pin	3.94 6P Acme Box	4.500	N/A	N/A	4.02	3,108.98	3,113.00
			4.5" Partial Blank									1.55	3,113.00	3,114.55
		18	4.5" Fully Blank TCP Gun P-B	Roller Sub OD 6.39	Expro	0000111	3.94 6P Acme Pin	3.94 6P Acme Box	4.500	N/A	N/A	5.63	3,114.55	3,120.18
		17	4.5" Partial Blank	Roller Sub OD 6.39	Expro	0000039	3.94 6P Acme Pin	3.94 6P Acme Box	4.500	N/A	N/A	4.52	3,120.18	3,124.70
			4.5" Partial Loaded 39SPM GH TCP Gun P-P									1.05	3,124.70	3,125.75
		16	4.5" Fully Loaded 39SPM GH TCP Gun P-B	Roller Sub OD 6.39	Expro	0000007	3.94 6P Acme Pin	3.94 6P Acme Box	4.500	N/A	N/A	5.63	3,125.75	3,131.38
		15	4.5" Fully Loaded 39SPM GH TCP Gun P-B	Roller Sub OD 6.39	Expro	0000004	3.94 6P Acme Pin	3.94 6P Acme Box	4.500	N/A	N/A	5.63	3,131.38	3,137.01
		14	4.5" Fully Loaded 39SPM GH TCP Gun P-B	Roller Sub OD 6.39	Expro	0000014	3.94 6P Acme Pin	3.94 6P Acme Box	4.500	N/A	N/A	5.63	3,137.01	3,142.64
		13	4.5" Partial Loaded 39SPM GH TCP Gun P-P	Roller Sub OD 6.39	Expro	0000047	3.94 6P Acme Pin	3.94 6P Acme Box	4.500	N/A	N/A	2.66	3,142.64	3,145.30
			4.5" Partial Blank									2.91	3,145.30	3,148.21
		12	4.5" Partial Blank	Roller Sub OD 6.39	Expro	0000040	3.94 6P Acme Pin	3.94 6P Acme Box	4.500	N/A	N/A	3.89	3,148.21	3,152.10
			4.5" Partial Loaded 39SPM GH TCP Gun P-P									1.68	3,152.10	3,153.78
		11	4.5" Partial Loaded 39SPM GH TCP Gun P-P	Roller Sub OD 6.39	Expro	0000046	3.94 6P Acme Pin	3.94 6P Acme Box	4.500	N/A	N/A	4.82	3,153.78	3,158.60
			4.5" Partial Blank									0.75	3,158.60	3,159.35
		10	4.5" Partial Blank	Roller Sub OD 6.39	Expro	0000037	3.94 6P Acme Pin	3.94 6P Acme Box	4.500	N/A	N/A	3.65	3,159.35	3,163.00
			4.5" Partial Loaded 39SPM GH TCP Gun P-P									1.92	3,163.00	3,164.92
		9	4.5" Fully Loaded 39SPM GH TCP Gun P-B	Roller Sub OD 6.39	Expro	0000005	3.94 6P Acme Pin	3.94 6P Acme Box	4.500	N/A	N/A	5.63	3,164.92	3,170.55
		8	4.5" Partial Loaded 39SPM GH TCP Gun P-P	Roller Sub OD 6.39	Expro	0000045	3.94 6P Acme Pin	3.94 6P Acme Box	4.500	N/A	N/A	5.15	3,170.55	3,175.70
			4.5" Partial Blank									0.42	3,175.70	3,176.12
		7	4.5" Fully Blank TCP Gun P-B	Roller Sub OD 6.39	Expro	0000110	3.94 6P Acme Pin	3.94 6P Acme Box	4.500	N/A	N/A	5.63	3,176.12	3,181.75
		6	4.5" Partial Blank	Roller Sub OD 6.39	Expro	0000038	3.94 6P Acme Pin	3.94 6P Acme Box	4.500	N/A	N/A	2.15	3,181.75	3,183.90
			4.5" Partial Loaded 39SPM GH TCP Gun P-P									3.42	3,183.90	3,187.32
		5	4.5" Partial Loaded 39SPM GH TCP Gun P-P	Roller Sub OD 6.39	Expro	0000044	3.94 6P Acme Pin	3.94 6P Acme Box	4.500	N/A	N/A	3.28	3,187.32	3,190.60
			4.5" Partial Blank									2.29	3,190.60	3,192.89
		4	4.5" Partial Blank	Roller Sub OD 6.39	Expro	0000036	3.94 6P Acme Pin	3.94 6P Acme Box	4.500	N/A	N/A	4.11	3,192.89	3,197.00
			4.5" Partial Loaded 39SPM GH TCP Gun P-P									1.46	3,197.00	3,198.46
		3	4.5" Fully Loaded 39SPM GH TCP Gun P-B	Roller Sub OD 6.39	Expro	0000030	3.94 6P Acme Pin	3.94 6P Acme Box	4.500	N/A	N/A	5.63	3,198.46	3,204.09
		2	4.5" Fully Loaded 39SPM GH TCP Gun P-B	Roller Sub OD 6.39	Expro	0000008	3.94 6P Acme Pin	3.94 6P Acme Box	4.500	N/A	N/A	5.63	3,204.09	3,209.72
		1	4.5" Fully Loaded 39SPM GH TCP Gun P-P	Roller Sub OD 6.39	Expro	0000052	3.94 6P Acme Pin	3.94 6P Acme Box	4.500	N/A	N/A	4.88	3,209.72	3,214.60
			TCP Bull Nose				3.94 6P Acme Pin	Nose	4.500	N/A	N/A	1.04	3,214.60	3,215.64

6.2 TCP toolstring run 2

Job Number	Client	Rig	Well Number	Field / Block	Date
	HVC	WSG Coil	MSD-GT-01 RUN 2	Maasdijk Geothermal	16-4-2024

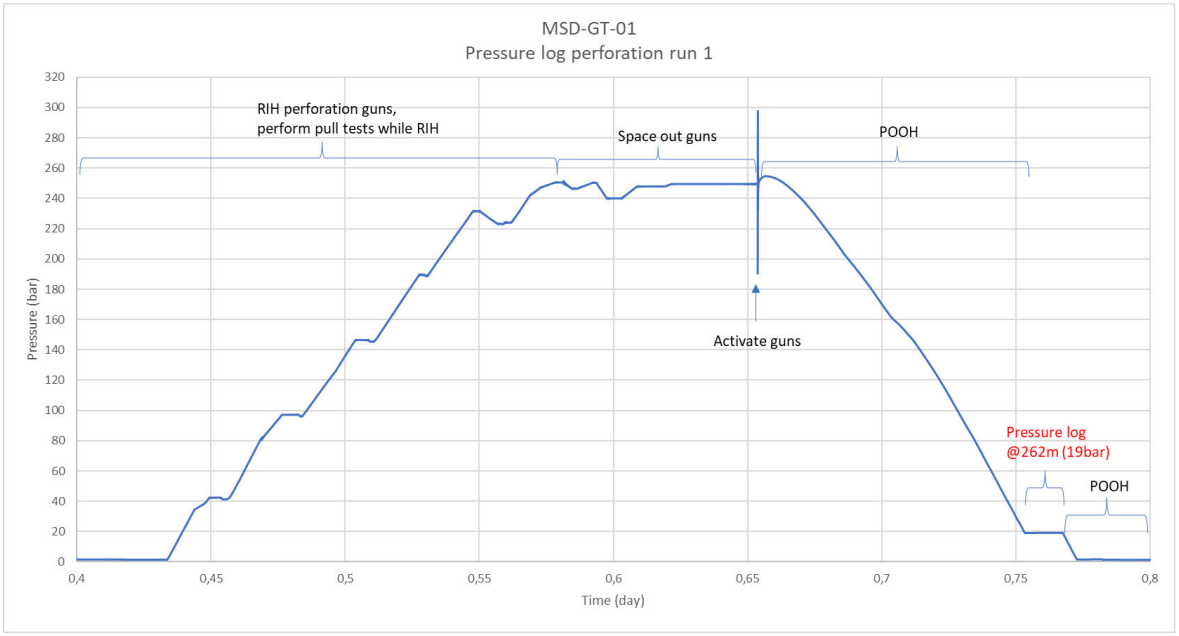
Run No.	Revision No.	Perforating / Test Interval(s)	Max. Deviation	Max. BHT	Max. BHP	Completion Fluid Type	Weight	Cushion Fluid Type	Weight
2	2		40	200F		CaCl	9.01		

Casing / Liner Description	Top Depth	Bottom Depth	Nominal ID (in.)	Drifted ID (in.)	Weight	Grade
10 3/4 GRE Lined csg	0	949			51/57.4#	L80
9 5/8" GRE Lined csg	949	2830			47/51.9#	L80
9 5/8" Cr13 Casing	2830	3295			47#	L80

Pipework Description	ID (in.)	Weight	Grade	Yield
2in Coil				

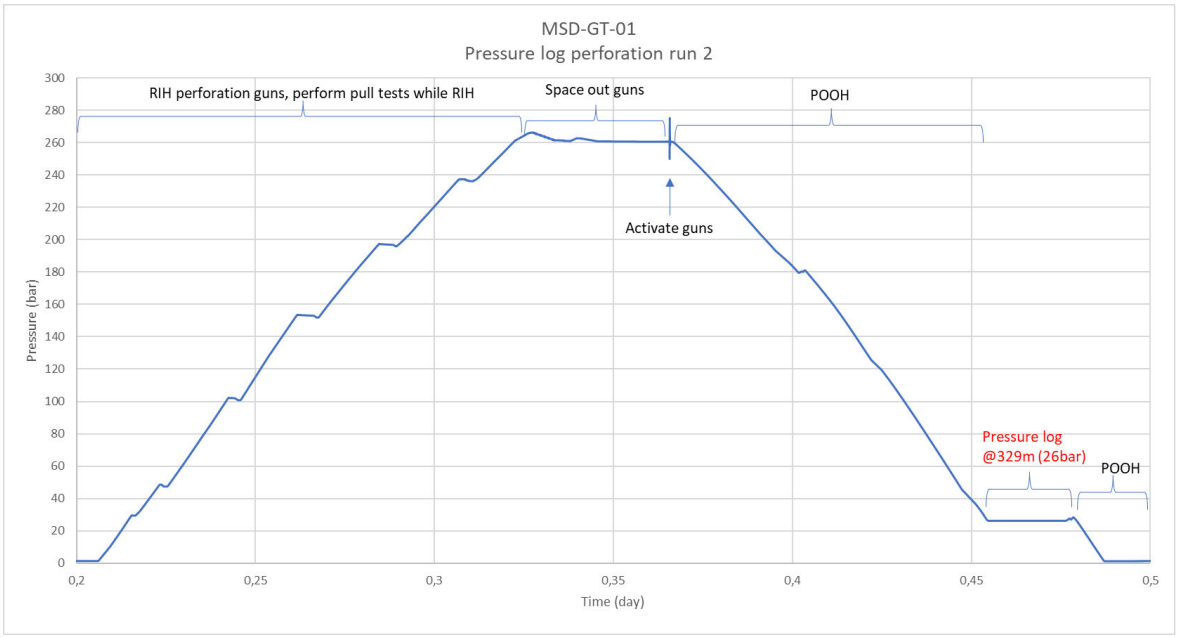
Diagram annotations	Layout	Item	Equipment Description	Details	Supplier	Serial No.	Connection Top	Connection Bottom	OD (in.)	ID (in.)	Volume ID (CUM)	Length	Depth (MD) Top	Depth (MD) Bottom
											m3	m	m	m
		43												
		24	2" Coil		WSG		N/A		2.000					2,851.42
		23	Inline connector		WSG			1.5"AMT Pin	2.000			0.12	2,851.42	2,851.54
		22	Straight Bar		WSG		1.5" AMT Box	1.5"AMT Pin	2.650			0.70	2,851.54	2,852.24
		21	intelleCT cable connector		WSG		1.5" AMT Box	1.5"AMT Pin	2.650			0.67	2,852.24	2,852.91
		20	Motor Head Assembly		WSG		1.5" AMT Box	1.5"AMT Pin	2.650			0.45	2,852.91	2,853.37
		19	intelleCT Quick Coupling	2 x .197 ports	WSG		1.5" AMT Box	1.5"AMT Pin	2.650			0.56	2,853.37	2,853.92
		18	Gauge Carrier GR/CCL		WSG		1.5" AMT Box	1.5"AMT Pin	2.650			3.04	2,853.92	2,856.96
		17	Bypass Gauge Carrier Press/Temp		WSG		1.5" AMT Box	1.5"AMT Pin	2.650			0.92	2,856.96	2,857.88
		16	Cossover 1.5" AMT to 2 3/8 PAC		WSG		1.5" AMT Box	2 3/8 PAC Pin	2.875			0.13	2,857.88	2,858.01
		15	CarSac		WSG		2 3/8 PAC Box	2 3/8 PAC Pin	2.875			0.67	2,858.01	2,858.68
		14	Crossover 2 3/8PAC to 2 3/8 EUE		WSG		2 3/8 PAC Box	2 3/8 EUE 8rd	2.875			0.18	2,858.68	2,858.86
		13	Auto Vent Pressure Activated Firing Head		Expro		2 3/8 EUE 8rd Box	2.75 6P Acme Box	3.500	N/A	N/A	0.45	2,858.86	2,859.31
		12	4.5" Partial Blank, Saftey Spacer	Roller Sub OD 6.39	Expro	0000006	2.75 6P Acme Pin	3.94 6P Acme Box	4.500	N/A	N/A	4.09	2,859.31	2,863.40
			4.5" Partial Loaded 39SPM GH TCP Gun P-P									1.48	2,863.40	2,864.88
		11	4.5" Partial Loaded 39SPM GH TCP Gun P-P	Roller Sub OD 6.39	Expro	0000051	3.94 6P Acme Pin	3.94 6P Acme Box	4.500	N/A	N/A	3.22	2,864.88	2,868.10
			4.5" Partial Blank									2.35	2,868.10	2,870.45
		10	4.5" Partial Blank	Roller Sub OD 6.39	Expro	0000050	3.94 6P Acme Pin	3.94 6P Acme Box	4.500	N/A	N/A	1.95	2,870.45	2,872.40
			4.5" Partial Loaded 39SPM GH TCP Gun P-P									3.62	2,872.40	2,876.02
		9	4.5" Partial Loaded 39SPM GH TCP Gun P-P	Roller Sub OD 6.39	Expro	0000049	3.94 6P Acme Pin	3.94 6P Acme Box	4.500	N/A	N/A	2.88	2,876.02	2,878.90
			4.5" Partial Blank									2.69	2,878.90	2,881.59
		8	4.5" Partial Blank	Roller Sub OD 6.39	Expro	0000031	3.94 6P Acme Pin	3.94 6P Acme Box	4.500	N/A	N/A	0.41	2,881.59	2,882.00
			4.5" Partial Loaded 39SPM GH TCP Gun P-B									5.22	2,882.00	2,887.22
		7	4.5" Fully Loaded 39SPM GH TCP Gun P-B	Roller Sub OD 6.39	Expro	0000072	3.94 6P Acme Pin	3.94 6P Acme Box	4.500	N/A	N/A	5.63	2,887.22	2,892.86
		6	4.5" Fully Loaded 39SPM GH TCP Gun P-B	Roller Sub OD 6.39	Expro	0000028	3.94 6P Acme Pin	3.94 6P Acme Box	4.500	N/A	N/A	5.63	2,892.86	2,898.49
		5	4.5" Fully Loaded 39SPM GH TCP Gun P-B	Roller Sub OD 6.39	Expro	0000033	3.94 6P Acme Pin	3.94 6P Acme Box	4.500	N/A	N/A	5.63	2,898.49	2,904.12
		4	4.5" Fully Loaded 39SPM GH TCP Gun P-B	Roller Sub OD 6.39	Expro	0000027	3.94 6P Acme Pin	3.94 6P Acme Box	4.500	N/A	N/A	5.63	2,904.12	2,909.76
		3	4.5" Fully Loaded 39SPM GH TCP Gun P-B	Roller Sub OD 6.39	Expro	0000029	3.94 6P Acme Pin	3.94 6P Acme Box	4.500	N/A	N/A	5.63	2,909.76	2,915.39
		2	4.5" Fully Loaded 39SPM GH TCP Gun P-B	Roller Sub OD 6.39	Expro	0000032	3.94 6P Acme Pin	3.94 6P Acme Box	4.500	N/A	N/A	5.63	2,915.39	2,921.03
		1	4.5" Fully Loaded 39SPM GH TCP Gun P-P	Roller Sub OD 6.39	Expro	0000024	3.94 6P Acme Pin	3.94 6P Acme Box	4.500	N/A	N/A	5.47	2,921.03	2,926.50
			TCP Bull Nose				3.94 6P Acme Pin	Nose	4.500	N/A	N/A	0.51	2,926.50	2,927.01

6.3 Pressure log perforating run#1



Fluid column above pressure gauge: 19bar / (1.08s.g. *0.0981) = 179m
Static water level: 262m – 179m = 83m

6.4 Pressure log perforating run#2



Fluid column above pressure gauge: 26bar / (1.08s.g. *0.0981) = 245m
Static water level: 329m – 245m = 84m

6.5 MFC log

See separate file
Note: log taken in May 2023

6.6 RBT log

See separate file
Note: log taken in June 2023 but was not yet included in the drilling EOWR.