



End of Well Report TNT-GT-01-P

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APPENDICES

<i>Appendix I.</i>	<i>Lithology Log</i>
<i>Appendix II.</i>	<i>Survey report</i>
<i>Appendix III.</i>	<i>Casing Tallies</i>

GLOSSARY

AH	Along hole	OH	Open hole
BGL	Below ground level	P	Production
BTC	Buttress thread connection	PBR	Polished bore receptacle
BOP	Blow out preventer	PDC	Polycrystalline diamond compact
B/U	Bottoms up	PDM	Positive displacement motor
CBL	Cement bond log	POD	Point of departure
CHH	Casing head housing	POOH	Pull out of hole
Cr	Chrome	ppf	pounds per foot
CRA	Corrosion resistant alloy	PR	Performance requirement
CRT	Casing running tool	PSL	Product specification level
DSV	Drilling supervisor	PV	Plastic viscosity
E	Easting	RD	Rijksdriehoekstelsel
ESP	Electric submersible pump	R/D	Rig down
ETSR	European Terrestrial Reference System	RIH	Run in hole
Fm	Formation	ROP	Rate of penetration
FMS	Flush mounted spider	RT	Rotary table
GL	Ground level	R/U	Rig up
GT	Geothermie	s.g.	Specific gravity
GRE	Glass reinforced epoxy	SodM	Staatstoezicht op de Mijnen
HKL	Hookload	TCI	Tungsten Carbide Insert
HMR	High magnesium resistant	TCP	Tubing conveyed perforation
Hrs	Hours	TD	Total depth
HSE	Health, Safety & Environment	TNT	Tinte
LIB	Lead impression block	TOC	Top of cement
LIH	Lost in hole	TOL	Top of liner
LH	Liner hanger	TSH	Tenaris Hydril
Lpm	Litre per minute	TVD	True vertical depth
LSA	Low specific activity	TWCV	Two-way check valve
LTOBM	Low toxic oil-based mud	W	Wedge
m	Meter	WBM	Water based mud
MD	Measured depth	WEP	Well Engineering Partners
MW	Mud weight	YP	Yield point
N	Nothing		
N2	Nitrogen		
NAP	Normaal Amsterdams Peil		
NDSV	Night drilling supervisor		
OBM	Oil based mud		

1. Project Details

1.1 Organisation

Project Management:

Project Director	
Project Manager	
Drilling Manager	
Sr. Drilling Engineer	
Drilling Engineer	
Production Engineer	
Sr. Well Site Geologist	
HSE Manager	

Drilling Supervisors on a two-week rotational scheme:

Drilling Supervisor		04-03-2020 / 24-03-2020
		09-04-2020 / 20-04-2020
Drilling Supervisor		26-03-2020 / 09-04-2020
Drilling Supervisor		24-03-2020 / 26-03-2020
Night Drilling Supervisor		09-03-2020 / 24-03-2020
		07-04-2020 / 20-04-2020
Night Drilling Supervisor		24-03-2020 / 07-04-2020

1.2 Operational summary

Location	Tinte (onshore), Netherlands
Well Number	TNT-GT-01-P
Well Name	TNT-GT-01-P
Well Type	Geothermal Production
Start operations	15-01-2020; 07:00 hr
Spud date	11-03-2020; 20:00 hr
Start rig down (end of well)	20-04-2020; 12:00 hr
Days Operational	39 days 14 hrs
Operator	Hydreco Geomec

	Latitude & Longitude (ETSR89)	Geographical
Surface Location	51°53'57.381"N 4°8'4.136"E	X: 68,783m (RD) Y: 435,272m (RD)

Grid Coordinate System	Rijksdriehoeksmeting / Netherlands New
Depth reference	Rotary Table (RT)

1.3 Drilling rig

Drilling Contractor	DrillTec
Drilling Rig	VDD 370.2 VarioRig



2. Well summary

The table below gives a summary of the drilling operations

Table 1: Well summary

Item	MDRT (m)	TVDRT (m)	Comments
24" Conductor	68	68	Prior to R/U the 24" Conductor was pre-installed to 68m MDRT as part of the drill site construction.
16" Hole	1280	1262	Hole drilled with a milled tooth bit and 9 5/8" PDM. Bentonite was used in first part of the section to plaster off the sandy Maassluis fm below the conductor. Section TD was reached at 1280m AH. Mud was kept at constant MW of 1.14 s.g. After seeing some minor cavings (leper fm) MW was increased precautionary to 1.17 s.g. After circulating hole clean with 3500lpm / 2x B/U, POOH was tried on elevators; at 1196m AH string was washed and reamed OOH to 1172m AH. On elevators to 1040m AH. Wash/Ream to 837m AH, after circulating B/U string was POOH on elevators.
13 3/8" Casing	1275	1258	The 13 3/8" 68# K55 BTC casing was ran using CRT + FMS. At 580m AH (Asse clay) observed drag increase, circulation with 1000lpm resulted in pack-off and loss of circulation. POOH to 534m and regained circulation. From this point onward the casing was washed down with 1000lpm to setting depth. Several pack-offs occurred in interval between 534-603m AH (Asse clay). Casing stood up at a ledge at 633m AH (fm. change at 624m AH). Tight spots at 1203 and 1220m AH, both Landen Clay. Cemented with 97 m ³ 1.60 s.g. lead slurry, after 97 m ³ switched to tail to ensure enough cement was available for pumping 12.2 m ³ tail slurry. At this point spacer was observed at surface. Because of losses the flowrate was reduced to 300-500 lpm, only minor returns observed from this time onwards. No cement returns seen, only spacer.
12 1/4" Hole (TD)	2863	2573	RIH 9 5/8" PDM with TCI bit. Pressure test of 13 3/8" casing failed. Drilled out shoe track and rat hole and POOH. RIH test packer, P-test ok, indicating a leaking shoe. RIH 9 5/8" PDM with TCI bit. Performed limit test to 1.50 s.g. below 13 3/8" shoe. Drilled Chalk until drilling performance dropped continuously below a ROP of 5 m/hr. RIH 9 5/8" PDM with PDC bit and displaced well to OBM. Overall performance in rotary was good with ROP's varying between 10 – 15 m/hr. Difficulties were found in sliding mode. Inclination was built to 43 deg. TD was called at 2863m AH. POOH on elevators.
OH-logging campaign			A OH log was performed to evaluate the primary and secondary reservoirs targets and their seals. Calliper showed good hole conditions. No problems were encountered during logging. An extra logging pass was made to find TOC behind the 13 3/8" casing. CBL results indicated perfect cement from 13 3/8" shoe to 370 m AH, thereafter, patchy cement until TOC was found at 135 m AH.

9 5/8" Liner	2857	2569	The mixed string 9 5/8", 47# (BTC shoetrack + 13Cr reservoir section + GRE-lined casing to LH). Six GRE-lined were damaged at their end flanges, which were laid out and replaced. Unable to stab in cup tool of LH due to a tight fit of the GRE-lined casing in slips. Last GRE-lined joint was set in slips with higher stick-up which allowed stabbing in the LH. No problems were encountered running liner to casing point. The liner hanger set successfully. Cemented liner with 50.5 m ³ 1.35 s.g. lead (lightweight cement) and 21.8 m ³ 1.88 s.g. HMR+ tail cement. High circulation pressures were encountered during cementation. Packer was set successfully. Reverse circulated out excess cement above the liner hanger.
Clean-out, Displace and perforate well			RIH & Dress of 9 5/8" PBR. Significant cement debris was found inside the 13 3/8" casing above the 9 5/8" liner hanger. While RIH clean-out assembly, resistance was observed during trip inside the 9 5/8" liner hanger. Cement debris was also circulated out of the 9 5/8" liner and in 13Cr joints below the GRE-lined section. Tagged wiper plug / cement 18m above the landing collar. Pumped clean-out pills and displaced well to 1.08 s.g. brine. POOH on elevators. Test BOP and RIH TCP guns. Pump N ₂ in annulus to obtain 70 bar underbalance and fire guns. While POOH an overpull of 20 MT was observed. LIH bottom clamp and some parts of perforation gun centralizers. Last 3 singles above guns were filled with sand and cement. R/U slickline and RIH with LIB, found restriction at 1143m AH. Attempt to work past restriction, progressed to 1175m AH. R/D slickline and RIH 12 1/4" drift BHA to 1219.8m AH. POOH and RIH 7 5/8" taper mill to 1227m AH (above GRE-lined section). POOH and RIH bullnose. Drag increase seen from 1345m AH, wash down with pack-off tendency to 1357m AH. Lost drag and returns while circulating. Continue RIH, worked past restriction at 2419m AH, until 2640m AH. POOH bullnose and RIH dress mill to redress TOL.
Well test and Suspend well			RIH downhole gauges. R/D slickline and RIH ESP assembly and 7" tubing. Land off hanger assembly with TWCV, N/D BOP and install X-mas tree. Pressure test wellhead and remove TWCV. Perform clean-up and well test as per plan. Stop ESP, shut-in and monitor pressures. R/D well test equipment and skid rig to drill TNT-GT-02.

2.1 Depths and trajectory

Primary Objective

Hardeggen (perforated top layer), Detfurth and Volpriehausen (Trias Sandstones)

Primary Objective Depth

2523.5 m MDRT 2321.5m TVDRT

Total Depth

2863 m MDRT 2573.5 m TVDRT

Elevation

RT – GL

8.6 m

GL – NAP

-0.3 m (NAP is 0.3m below ground level)

NAP – RT

8.3 m

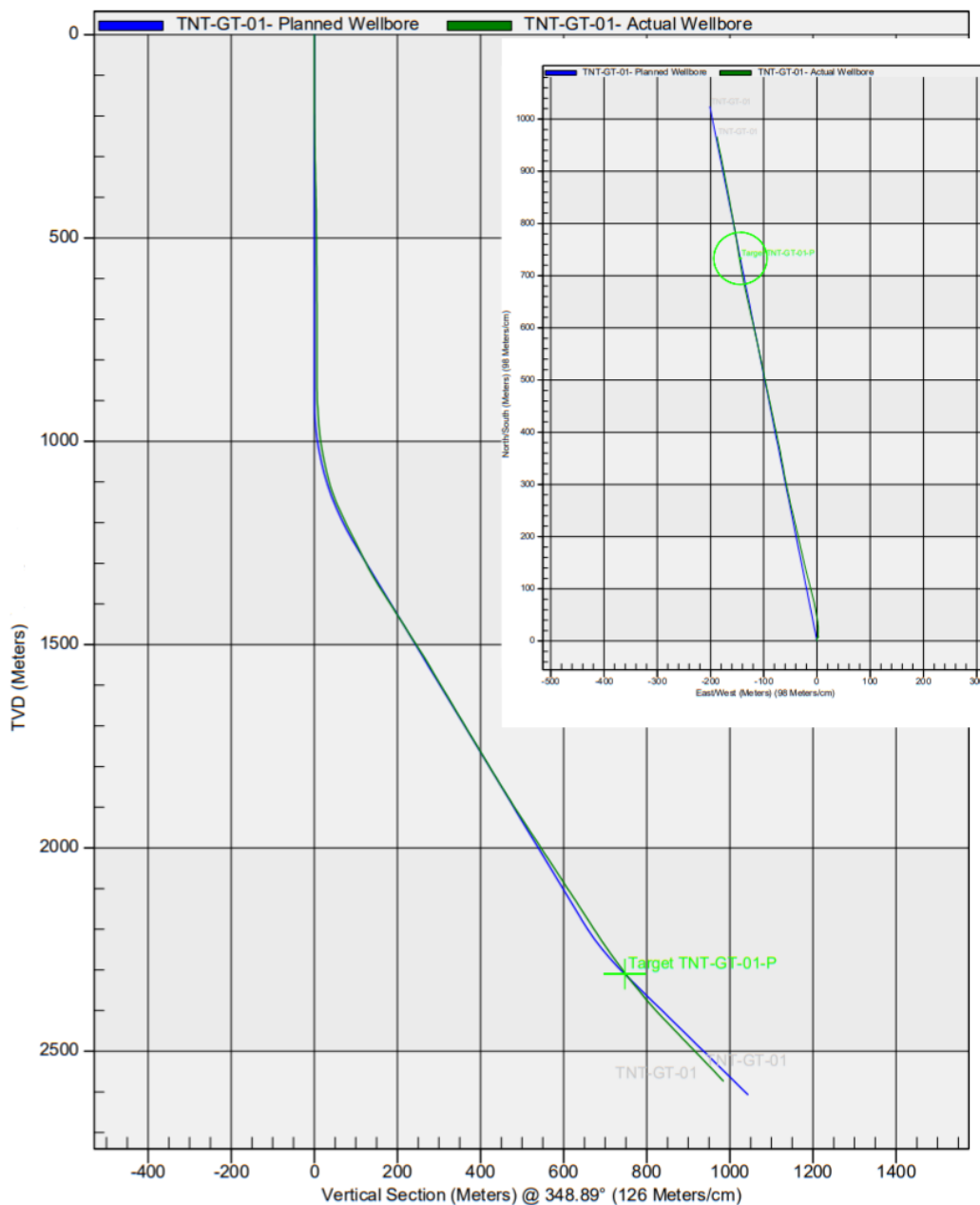


Figure 1. Vertical section and plan view

2.2 Technical summary

2.2.1 Casing

Table 2: TNT-GT-01 tubular summary

Item	Top (m MDRT)	Bottom (m MDRT)	Weight	Grade	Connection
24" Conductor	0	68	244" WT	S355	Welded
13 3/8" Casing	0	1275	68 ppf	K55	BTC
9 5/8" mixed string liner	1218	2383	51.9 ppf	L80 GRE- lined	VAMTOP
	2393	2821	47 ppf	13Cr L80	TSH W523
	2821	2857	47 ppf	L80	BTC

2.2.2 Cement

Table 3: TNT-GT-01 cement summary

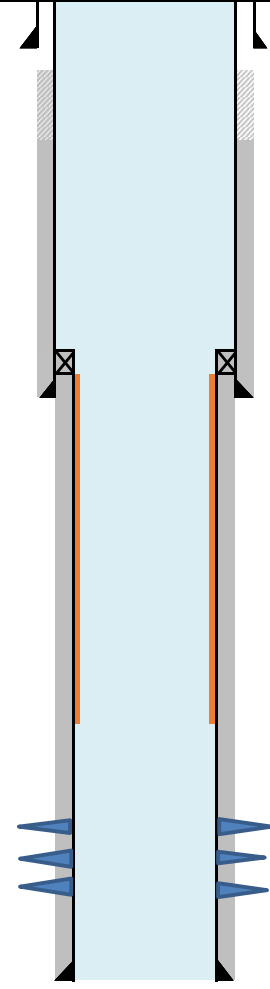
Item	TOC (m MDRT)	Lead Slurry Volume (m³)	Lead Slurry Weight (s.g.)	Tail Slurry Volume (m³)	Tail Slurry Weight (s.g.)	Type
13 3/8" Casing	135 (CBL)	97	1.60	12.2	1.90	Class G
9 5/8" Liner	Liner Top	50.5	1.36	21.8	1.88	Lightweight HMR+ /

2.2.3 Pressure test overview

Test	Test against	Test fluid	Surface Test pressure (bar)	Depth (m TVD)	Test Date
CHH P-seals, via test port	P-seals	Oil	108	-	21/03/2020
13 3/8" wellhead connection and SOV	Blind rams, Cup type tester	Water	206	-	21/03/2020
13 3/8" casing	Grey cement (against ELK1-X test packer)	1.20 s.g. WBM	100	1253 (packer setting depth)	24/03/2020
LIM 13 3/8" shoe	Ommelanden fm.	1.20 s.g. WBM	37 (1.50 s.g. EMW)	1258	24/03/2020
9 5/8" liner	Green cement (on bump)	1.23 s.g. OBM	212	-	08/04/2020
9 5/8" liner packer (and complete well)	Green cement	1.23 s.g. OBM	100	-	08/02/2020
Hanger neck seals and hanger cavity, via test port	Hanger neck seals, ring gasket, hanger seal	Oil	207	-	17/04/2020
X-mas Tree and Tubing Head Adaptor connections	Blind flange, Wing valve, TWCV	Water	207	-	17/04/2020

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2.2.4 Well schematic

Nr.	Item Description Production Well, Depths from RT RT = 8.7m above GL RT = 8.4m above NAP	Wellhead and Xmastree TNT-GT-01-P (Producer)	Depth	Depth	Hole ID	Pipe OD	Collar	Pipe ID	Pipe ID	Lithology
			m TVD	m AH	in	in	in (nom)	in	in (drift)	
1	24" welded conductor / stove pipe		68	68		24	welded	22	>16	North Sea 8
			135	135						Mid NS 370
			370	370						Low NS 504
2	LH 13-3/8" x 9-5/8" 13-3/8", 68#, K55, BTC		1207	1218						Chalk 1150
			1258	1275	16.000	13.375	14.175	12.415	12.259	Rijnland 1947
										(Schieland) Trias 2201
3	9-5/8", 47#, L80, GRE-Lined VAM TOP X-over 9-5/8" GRE-lined x 9-5/8" CRA		2214	2393		9.625	10.396	8.250	8.125	Rot Fringe 2261
			2323	2526	Top Perforations					Hardeggen 2321.5
			2494	2755	Bottom perforations					Lr Detfurth 2396
4	9-5/8", 47#, L80, 13Cr, TSH W523		2538	2815						Rogenstein 2538.5
5	9-5/8", 47#, L80, BTC (shoetrack)		2542	2821	12.250	9.625	9.784	8.681	8.525	
			2569	2857	12.250	9.625	10.626	8.681	8.525	

*Not in scale.

Figure 2: TNT-GT-01 well schematic without completion.

3. Drilling fluid summary

Per section the following drilling fluid types have been used:

Table 4: TNT-GT-01 drilling fluid summary

Section	Type	Density (s.g.) Min – Max	PV (cP) Min – Max	YP (lbf/100ft2) Min – Max
16"	Bentonite spud mud & KCl Glycol WBM	1.10– 1.17	13 – 20	14 – 18
12 ¼"	KCl Glycol WBM	1.21 – 1.25	14 - 16	15 - 26
12 ¼"	LTOBM (Enviromul)	1.15 – 1.25	14 - 16	15 - 26

The figure below shows the mud weight versus depth during drilling operations.

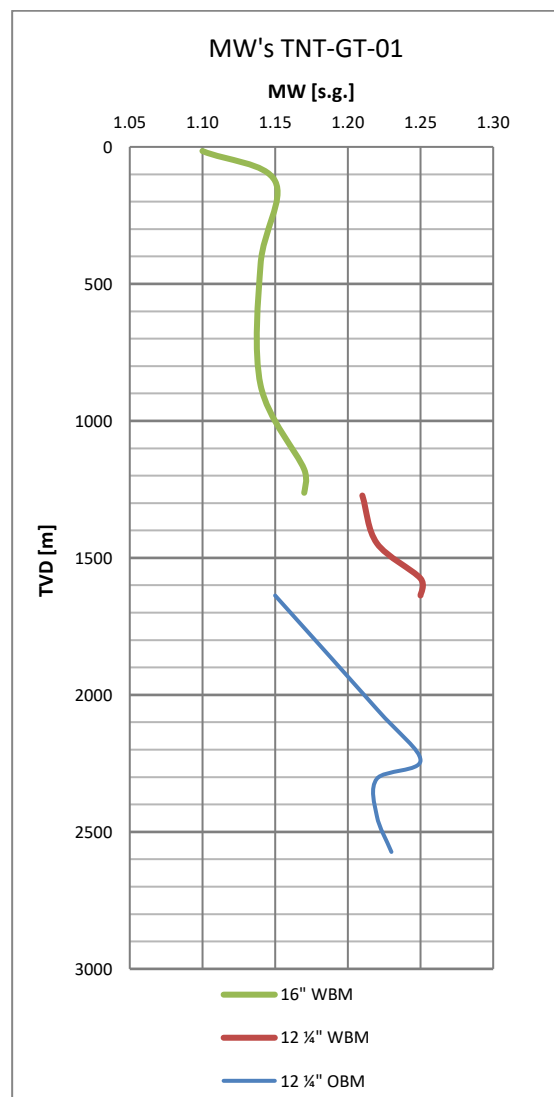


Figure 3: Mud weight vs. depth

4. Geology

4.1 Lithostratigraphic column

Below the geological column with vertical and along hole depths below RT.

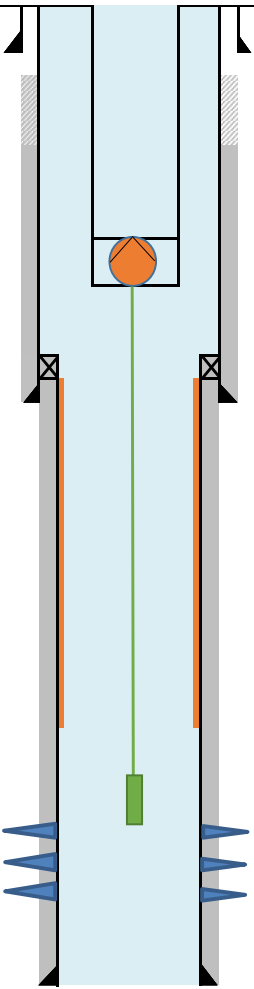
Lithostratigraphic Column Tinte TNT-GT-01					Julien Smeulders	Actual		
Group	Period	Formation	Member	Lithology	TV-RT Depth (m)	AH-RT Depth (m)		
Upper North Sea NU	Quaternary	"Diverse"		Diverse continental deposits, mostly fluvial sands and silts intercalated by layers of grey or greenish-grey, silty clays.	8.4	8.4		
		Maassluis NUMS		Fine to medium coarse sand, calcareous, micaceous and with marine shells. Small intercalations of silty clays, grey to dark grey. Locally some wood, reed and roots are present.	84	84		
		Oosterhout NIJOD		Succession of sands, sandy clays, and grey and greenish clays. The glauconite content is low. Locally rich in shells and bryozoans.	215	215		
		Breda NIJBR		Sequence of marine, glauconitic sands, sandy clays and clays. A glauconite-rich layer occurs at the base.	307.5	307.5		
Middle North Sea NM	Tertiary	Rupel NM RU	Rupel Clay NM RFC	Clays that become more silty towards basis and top. It is rich in pyrite, contains hardly any glauconite and calcium carbonate tends to be concentrated in the septaria layers.	370	370		
			Vessem NM RFV	Silty to clayey sands with a low glauconite content; flint pebbles or phosphorite nodules commonly occur at the base.	458	458		
Lower North Sea NL		Dongen NLDO	Asse NLFFB	Dark greenish-grey and blue-grey, plastic clays. The unit locally shows indications of bioturbation, and may be glauconitic and micaceous.	504	504		
			Brussel Sand NLFFS	Green-grey, glauconitic, very fine-grained sand with a number of hard, calcareous sandstone layers of some dm thickness.	624	624		
			Ieper NLFFI	A soft, tough and sticky to hardened and friable clay.	761	761		
			Basal Dongen Sand NLFFD	Light green-grey, locally glauconitic, usually thin (argillaceous) sand with a fining-upward character.	1065.5	1067		
Chalk CK	Cretaceous	Landen NL LA	Landen Clay NL LFC	Dark-green, hard, flaky clay, somewhat silty, containing glauconite, pyrite and mica. The basal part of the member can be marly.	1089.5	1091.5		
		Eko-fisk CKEK		White, chalky limestones containing rare white and grey nodular and bedded chert layers, and thin, grey to green (glauconitic) clay laminae.	1150	1155		
Rijnland RN		Ommelanden CKGR		Succession of white, yellowish-white or light-grey, fine grained limestones, in places argillaceous. Layers of chert are common. Along the basin edge coarse, bioclastic limestones and tongues of sandstone can occur.	1215	1227.5 10" section TD @ 280m		
		Texel CKTX	Plenus Marl CKTXP	Dark-grey, partly black, calcareous, laminated claystone.	1916.5	2040		
			Texel Marlstone CKTXM	White to light-grey, locally pinkish, limestones and marly chalks.	1919	2042		
			Texel Greensand CKTXG	Greenish, glauconitic, calcareous sandstones with intercalated marls.	1935	2061		
Holland KNGL	Vlieland Sandstone KNNS	Spijkenisse Greensand KNGLS	Mainly coarse-grained, greenish grey, glauconitic sandstones, locally with argillaceous matrix or calcareous cementation.	1947	2076			
		Lower Holland Marl KNGLL	A fossiliferous, glauconitic and intensely bioturbated, greenish grey, silty to very silty or sandy, glauconitic marl and claystone unit.	2009	2149.5			
		De Lier KNNSL	Alternation of thin-bedded, very fine- to fine-grained argillaceous sandstones, generally glauconitic and lignitic.	2049.5	2198			
		Eemhaven Claystone KNNCU	A thin claystone section intercalated between the De Lier Member and the IJsselmonde Sandstone Member, with marine fossils.	2103	2261.5			
Schieland SL	Nieuwerkerk SLDN	IJsselmonde Sandstone KNNSY	Massive sandstone, very fine- to medium-grained, lignitic, locally glauconitic and/or with sideritic concretions. Calcareous cemented beds are common; locally shells and shell fragments are present.	2110	2270			
		Alblasserdam SLDNA	A succession of red and dark to light (brownish) grey clay(stones) and siltstones, fine to medium grained sandstones and massive, thick-bedded, coarse grained sandstones. Coal & lignite beds.	2164	2333			
Upper Germanic Trias RN	Triassic	Keuper RNKP	Upper Keuper Claystone RNKP	Predominantly grey, silty claystones and marls with streaks of fine-grained sandstone.	2201	2377		
			Dolomitic Keuper RNKPD	A sequence of anhydritic, dolomitic or marly claystones, containing fine-grained sandstone intercalations. Grey to green colours are common, but red claystones also occur.	2204	2380.5		
			Red Keuper Claystone RNKPR	Red, silty clay- or marlstones (high gamma-ray readings). These rocks are strongly variegated displaying red, green, yellow and grey colours.	2220.5	2400.5		
		Muschelkalk RNMU	Middle Muschelkalk RNMUA	Light greenish-grey marlstone unit which contains some anhydrite beds in the basal part.	2225	2405		
			Muschelkalk Evaporite RNMUE	This unit is composed a thin succession of anhydrites intercalated with limestone, dolomite and thin beds with sandstone. [Based on MSV-01& BRL-GT-01/02]	2229	2410		
			Lower Muschelkalk RNMUL	Alternation of mainly light-greenish-grey limestone or dolomite and marl beds.	2230	2411		
		Röt RNRO	Upper Röt Fringe Claystone RNROF	A red-brown, silty, sandy or anhydritic claystone. It may also contain some dolomitic stringers.	2253	2439		
			Röt Fringe Sandstone RNROF	Grey, cross-bedded, arkosic sandstones with intercalated claystone beds.	2261	2448		
			Lower Röt Fringe Claystone RNROL	Red-brown silty claystone, often with an anhydrite or anhydrite-cemented sandstone bed at its base.	2307.5	2506		
		Solling RNSO	Solling Claystone RNSOC	Red, green and locally grey claystones. Within the member, occasional sand stringers are present.	2315.5	2516		
			Basal Solling Sandstone RNSOB	Light-coloured, massive or cross-bedded, and dolomite-cemented sandstone.	2320.5	2522		
		Lower Germanic Trias RB	Permian-	Hardegsen RBMH		Several stacked alternations of off-white to pink sandstones and some red claystones.	2321.5	2523.5
				Detfurth RBM D	Upper Detfurth Sandstone RBM DU	The member displays a typical log character of two clay beds with high gamma-ray readings, separated by sandstones.	2373	2589
					Lower Detfurth Sandstone RBM DL	A massive, light-coloured, arkosic sandstone. The high quartz content and quartz cementation of the sandstones is typical here.	2396	2620
				Volpriehausen RBM V	Upper Volpriehausen Sandstone RBM VU	Light-brown sandstone, usually carbonate-cemented. The thin claystone beds have a greenish colour & show an alternation of thin sandstone and claystone laminae.	2401	2626
Lower Volpriehausen Sandstone RBM VL	Pink to grey, (sub-)arkosic sandstone unit, frequently displaying a distinct, blocky character on the gamma-ray logs. The member contains reworked material of the underlying formation in its lower part, which in general is strongly cemented.				2473	2725		
Lower Buntsandstein RB SH	Rogenstein RB SHR			A cyclical alternation of red-brown and green, in places grey, occasionally anhydritic claystones, siltstones and sandstones or calcareous oolite beds.	2537.5	2813		
TD					2573.5	2863		

Table 5: TNT-GT-01 geological lithostratigraphic column

5. Well suspension status

5.1 Well status

Well is suspended with formation brine (1.06 to 1.08 s.g. brine), production string with ESP installed to 846m AH installed and memory gauge sensors installed to a depth of 2503m AH on slickline. The TWCV is removed after testing the X-mas tree. The reservoir is perforated over the 2526 to 2755m AH interval, with: 4 5/8" HMX Millennium II guns, 5 spf and 72° phasing. The well is designed for a lifespan of 30 years (with 10 3/4" tie-back installed). See in

Nr.	Item Description Production Well, Depths from RT RT = 8.7m above GL RT = 8.4m above NAP	Wellhead and Xmas tree TNT-GT-01-P (Producer)	Depth	Depth	Hole ID	Pipe OD	Collar	Pipe ID	Pipe ID	Lithology
			m	m	in	in	in	in	in	Top TVDRT
1	24" welded conductor / stove pipe		68	68		24	welded	22	>16	North Sea 8
	TOC Patchy cement		135	135						Mid NS 370
			370	370						Low NS 504
	7", 26#, L80, VAGT		817	817		7.000		6.276	6.151	
	ESP		846	846						
	LH 13-3/8" x 9-5/8"		1207	1218						Chalk 1150
2	13-3/8", 68#, K55, BTC		1258	1275	16.000	13.375	14.175	12.415	12.259	
										Rijnland 1947
										(Schieland) Trias 2201
3	9-5/8", 47# , L80, GRE-Lined VAM TOP X-over 9-5/8" GRE-lined x 9-5/8" CRA		2214	2393		9.625	10.396	8.250	8.125	Rot Fringe 2261
	Memory Gauge		2305	2503						Hardeggen 2321.5
			2323	2526	Top Perforations					Lr Detfurth 2396
	HUD (cement)		2494	2755	Bottom perforations					Rogenstein 2537.5
	9-5/8", 47# , L80, 13Cr, TSH W523		2538	2815						
	9-5/8", 47#, L80, BTC (shoetrack)		2542	2821	12.250	9.625	9.784	8.681	8.525	
			2569	2857	12.250	9.625	10.626	8.681	8.525	

*Not in scale.

Figure 4 the well as it is suspended and in Figure 5 the well barrier schematic, where the primary barrier is brine.

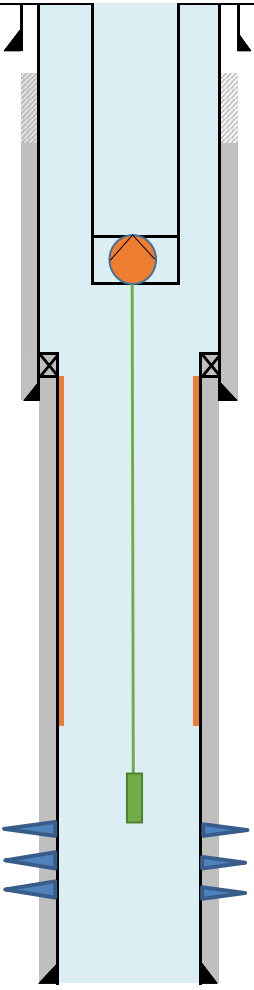
Nr.	Item Description	Wellhead and Xmastree TNT-GT-01-P (Producer)	Depth	Depth	Hole ID	Pipe OD	Collar	Pipe ID	Pipe ID	Lithology
			m	m	in	in	in	in	in	Top
	Production Well, Depths from RT RT = 8.7m above GL RT = 8.4m above NAP		TVDRT	AHRT			OD (nom)		(drift)	TVDRT
1	24" welded conductor / stove pipe		68	68		24	welded	22	>16	North Sea 8
	TOC Patchy cement		135	135						Mid NS 370
			370	370						Low NS 504
	7", 26#, L80, VAGT		817	817		7.000		6.276	6.151	
	ESP		846	846						
	LH 13-3/8" x 9-5/8"		1207	1218						Chalk 1150
2	13-3/8", 68#, K55, BTC		1258	1275	16.000	13.375	14.175	12.415	12.259	
										Rijnland 1947
										(Schieland) Trias 2201
3	9-5/8", 47# , L80, GRE-Lined VAM TOP X-over 9-5/8" GRE-lined x 9-5/8" CRA		2214	2393		9.625	10.396	8.250	8.125	Rot Fringe 2261
	Memory Gauge		2305	2503						Hardeggen 2321.5
			2323	2526	Top Perforations					
			2494	2755	Bottom perforations					Lr Detfurth 2396
	HUD (cement)		2538	2815						
4	9-5/8", 47# , L80, 13Cr, TSH W523		2542	2821	12.250	9.625	9.784	8.681	8.525	Rogenstein 2537.5
5	9-5/8", 47#, L80, BTC (shoetrack)		2569	2857	12.250	9.625	10.626	8.681	8.525	

Figure 4. Well schematic as it is suspended after the drilling phase.

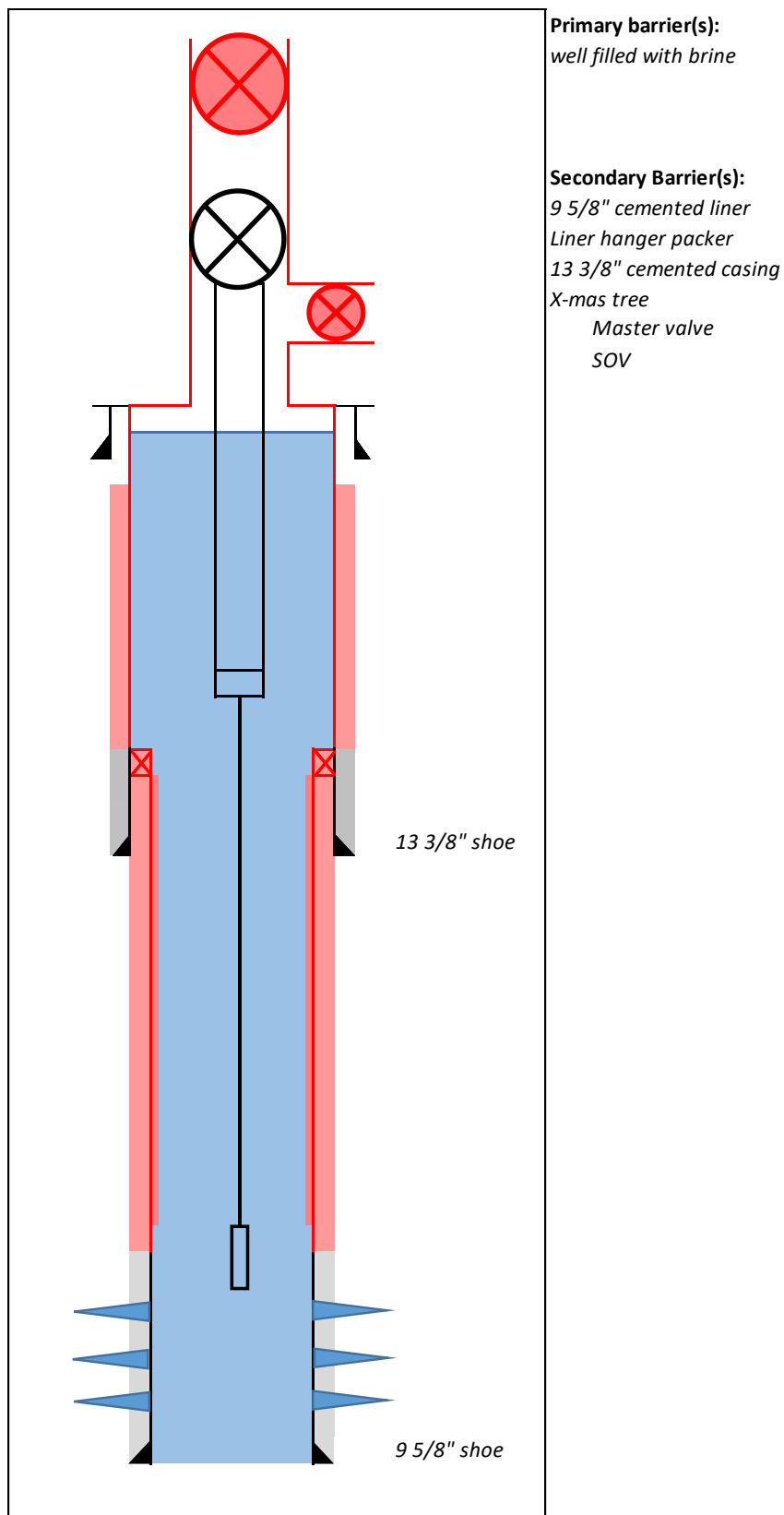
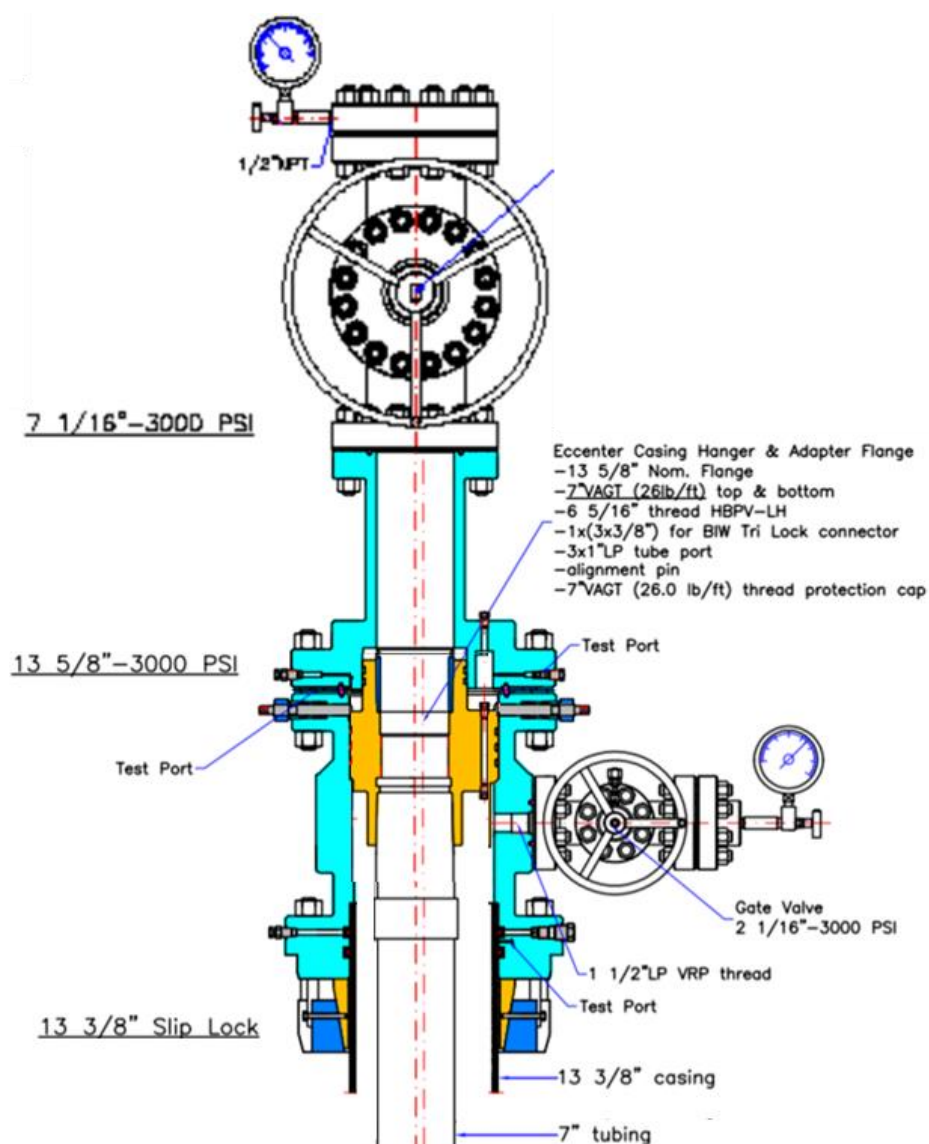


Figure 5. Well barrier schematic.

5.2 Wellhead and Christmas tree drawing

Below the schematic of the wellhead as it was suspended. See section for pressure testing history.



Description	Material grade	Testing criteria	Status
CHH	DD	PSL 2, PR1	-
SOV (gate valve)	DD	PSL 2, PR1	Closed
7" Tubing hanger	EE, alloy 718	PSL 2, PR1	Tri-LOK penetrator installed
Tubing head adapter	EE, wet areas clad with alloy 625	PSL 2, PR1	-
Master valve (ball valve, soft seats, gear box hand operated)	EE, wet areas clad with alloy 625	PSL 2, PR1	Closed

Operator: Hydreco Geomatics

Borehole Section: TNT-GT-01
Well Name: TNT-GT-01

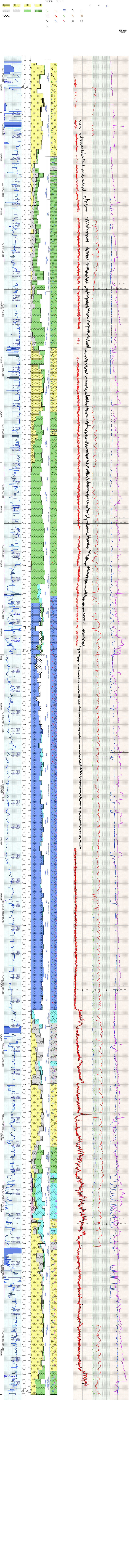
Country: Netherlands
Region or oilfield: West Noth
Location: Tintje
Concession: Oostboorn

Longitude / Latitude: E 4°
Ordnance Survey Map: ETRS
Elev. well head / KB: -0.30

Production/exploitation well:

Last day drilled: 22.03.2020
 Start depth (Tie-in) 0.00 m
 Total depth: 2863.00 m
 Plugged back depth: 2815.00 m

DrillTec Variorig VDD370.2
 DrillTec GUT GmbH



Operator

Duurzaam Voorne

Field

TNT

Facility

TNT

Well

TNT-GT-01-P

Wellbore

TNT-GT-01

Local co-ord ref

Well Centered

TVD Reference

RKB

North Reference

GRID

Survey Calc Method

Minimum Curvature

Field: TNT

CRS

Netherlands Coordinate System / N

Apply Scale Factor

NO

System Datum

User Defined

Map Northing

435271.91 Meters

Grid Convergence

-0.989

Scale Factor

0.99991

Depth Datum->MSL

8.30 m

Map Easting

68782.93 Meters

Facility: TNT

Map Northing

435271.91 Meters

Vertical Uncertainty

0.00 m

Grid Convergence

-0.989

Map Easting

68782.93 Meters

Horizontal Uncertainty

0.00 m

Well: TNT-GT-01-P

Local North

0.00 m

Map Northing

435271.91 Meters

Depth Datum

RKB

GL Elevation

-0.30 m

Grid Convergence

-0.989

Local East

0.00 m

Map Easting

68782.93 Meters

Datum Elevation

8.30 m

Well bore: TNT-GT-01

Magnetic Model

IGRF13.COF

Total Field (nT)

49154.677

Declination (°)

1.466

VS Origin

Well

VS Orgin NS

0.00 m

Date

11/3/2020

Dip Angle (°)

66.984

VS Azimuth

349.15

VS Origin EW

0.00 m

Survey Program: TNT-GT-01

Depth From (m)		Depth To (m)	Survey	Survey Tool
0		1255	16in Section Surveys TNT-GT-01	MWD+IGRF+SAG
1255		2863	12 1/4" Section Surveys TNT-GT-01	MWD+IGRF+SAG

MD	Inc	Azi	TVD	NS	EW	VS	DLS	BR	TR	TF	CL	TVD SS	Map Northing	Map Easting	Closure Azi	Up/Dn	Left/Right
m	°	°	m	m	m	m	(°/30m)	(°/30m)	(°/30m)	°	m	m	Meters	Meters	°	m	m
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-8.30	435271.91	68782.93	0.00	0.00	0.00
114.20	0.20	301.40	114.20	0.10	-0.17	0.13	0.05	0.05	15.39	301.40	114.20	105.90	435272.01	68782.76	301.40	0.20	0.00
125.50	0.10	327.60	125.50	0.12	-0.19	0.16	0.32	-0.27	69.56	158.18	11.30	117.20	435272.03	68782.74	302.49	0.21	-0.10

MD m	Inc °	Azi °	TVD m	NS m	EW m	VS m	DLS (°/30m)	BR (°/30m)	TR (°/30m)	TF °	CL m	TVD SS m	Map Northing Meters	Map Easting Meters	Closure Azi °	Up/Dn m	Left/Right m
134.30	0.10	301.60	134.30	0.13	-0.20	0.17	0.15	0.00	-88.64	-103.00	8.80	126.00	435272.04	68782.73	303.24	0.24	0.01
154.20	0.10	329.20	154.20	0.16	-0.23	0.20	0.07	0.00	41.61	103.80	19.90	145.90	435272.07	68782.70	304.71	0.25	-0.11
163.60	0.10	351.40	163.60	0.17	-0.23	0.21	0.12	0.00	70.85	101.10	9.40	155.30	435272.08	68782.70	306.57	0.20	-0.20
173.10	0.10	346.10	173.10	0.19	-0.24	0.23	0.03	0.00	-16.74	-92.65	9.50	164.80	435272.10	68782.69	308.69	0.24	-0.18
182.40	0.10	359.80	182.40	0.20	-0.24	0.25	0.08	0.00	44.19	96.85	9.30	174.10	435272.11	68782.69	310.75	0.21	-0.24
191.90	0.30	1.60	191.90	0.24	-0.24	0.28	0.63	0.63	5.68	2.70	9.50	183.60	435272.15	68782.69	315.12	0.23	-0.24
201.70	0.60	1.80	201.70	0.31	-0.23	0.35	0.92	0.92	0.61	0.40	9.80	193.40	435272.22	68782.70	323.32	0.31	-0.24
210.50	0.60	353.90	210.50	0.41	-0.24	0.44	0.28	0.00	26.93	-93.95	8.80	202.20	435272.32	68782.69	329.67	0.43	-0.19
229.30	0.90	356.20	229.30	0.65	-0.26	0.69	0.48	0.48	3.67	6.88	18.80	221.00	435272.56	68782.67	338.40	0.67	-0.21
242.10	1.00	350.70	242.10	0.86	-0.28	0.90	0.32	0.23	-12.89	-45.13	12.80	233.80	435272.77	68782.65	341.85	0.90	-0.14
254.90	0.90	351.50	254.89	1.07	-0.32	1.11	0.24	-0.23	1.87	172.84	12.80	246.59	435272.98	68782.61	343.59	1.11	-0.15
267.70	1.00	358.90	267.69	1.28	-0.33	1.32	0.37	0.23	17.34	54.56	12.80	259.39	435273.19	68782.60	345.47	1.29	-0.31
281.00	0.90	352.10	280.99	1.50	-0.35	1.54	0.34	-0.23	-15.34	-134.94	13.30	272.69	435273.41	68782.58	346.92	1.54	-0.14
293.40	0.80	359.40	293.39	1.69	-0.36	1.72	0.36	-0.24	17.66	136.33	12.40	285.09	435273.60	68782.57	347.83	1.69	-0.35
306.30	1.00	356.50	306.29	1.89	-0.37	1.92	0.48	0.47	-6.74	-14.28	12.90	297.99	435273.80	68782.56	348.87	1.91	-0.26
319.10	1.10	2.80	319.08	2.12	-0.37	2.15	0.36	0.23	14.77	52.28	12.80	310.78	435274.03	68782.56	350.06	2.10	-0.48
343.50	1.00	357.60	343.48	2.57	-0.37	2.59	0.17	-0.12	6.39	-138.96	24.40	335.18	435274.48	68782.56	351.81	2.58	-0.26
356.90	1.40	357.00	356.88	2.85	-0.38	2.87	0.90	0.90	-1.34	-2.10	13.40	348.58	435274.76	68782.55	352.34	2.87	-0.23
369.90	1.70	359.30	369.87	3.20	-0.39	3.22	0.71	0.69	5.31	12.87	13.00	361.57	435275.11	68782.54	352.99	3.20	-0.35
382.80	1.30	3.20	382.77	3.54	-0.39	3.55	0.96	-0.93	9.07	167.63	12.90	374.47	435275.45	68782.54	353.74	3.51	-0.58
395.50	1.40	2.70	395.47	3.84	-0.37	3.84	0.24	0.24	-1.18	-6.97	12.70	387.17	435275.75	68782.56	354.45	3.81	-0.55
408.70	1.70	3.40	408.66	4.19	-0.35	4.18	0.68	0.68	1.59	3.96	13.20	400.36	435276.10	68782.58	355.18	4.16	-0.60
421.20	1.40	353.30	421.16	4.53	-0.36	4.52	0.97	-0.72	24.24	-142.65	12.50	412.86	435276.44	68782.57	355.45	4.54	0.17
434.10	0.70	23.50	434.05	4.76	-0.35	4.74	2.02	-1.63	70.23	156.11	12.90	425.75	435276.67	68782.58	355.83	4.23	-2.22
446.80	0.30	46.40	446.75	4.85	-0.29	4.82	1.04	-0.94	54.09	164.59	12.70	438.45	435276.76	68782.64	356.56	3.13	-3.72
459.80	0.70	28.90	459.75	4.95	-0.23	4.90	0.98	0.92	-40.38	-29.80	13.00	451.45	435276.86	68782.70	357.35	4.22	-2.59
472.70	0.40	47.60	472.65	5.05	-0.16	4.98	0.80	-0.70	43.49	158.23	12.90	464.35	435276.96	68782.77	358.21	3.29	-3.83
486.10	0.50	42.90	486.05	5.12	-0.08	5.04	0.24	0.22	-10.52	-22.62	13.40	477.75	435277.03	68782.85	359.07	3.69	-3.55
498.20	0.90	45.50	498.15	5.22	0.02	5.13	0.99	0.99	6.45	5.84	12.10	489.85	435277.13	68782.95	0.22	3.68	-3.71
511.20	0.60	35.50	511.15	5.35	0.13	5.23	0.75	-0.69	-23.08	-161.37	13.00	502.85	435277.26	68783.06	1.42	4.43	-3.00
523.90	0.50	51.30	523.85	5.44	0.21	5.30	0.43	-0.24	37.32	131.13	12.70	515.55	435277.35	68783.14	2.26	3.57	-4.11
537.30	0.60	32.20	537.25	5.54	0.30	5.38	0.46	0.22	-42.76	-71.16	13.40	528.95	435277.45	68783.23	3.08	4.84	-2.70
550.00	0.80	45.60	549.95	5.65	0.40	5.48	0.61	0.47	31.65	46.13	12.70	541.65	435277.56	68783.33	4.01	4.24	-3.76
562.40	0.80	45.50	562.35	5.78	0.52	5.57	0.00	0.00	-0.24	-90.05	12.40	554.05	435277.69	68783.45	5.14	4.42	-3.76
575.30	0.90	50.50	575.24	5.90	0.66	5.67	0.29	0.23	11.63	39.08	12.90	566.94	435277.81	68783.59	6.40	4.27	-4.13
588.30	0.80	51.50	588.24	6.02	0.81	5.76	0.23	-0.23	2.31	172.06	13.00	579.94	435277.93	68783.74	7.68	4.39	-4.21
601.00	0.80	54.90	600.94	6.13	0.95	5.84	0.11	0.00	8.03	91.70	12.70	592.64	435278.04	68783.88	8.85	4.31	-4.47
614.00	0.80	62.40	613.94	6.23	1.11	5.91	0.24	0.00	17.31	93.75	13.00	605.64	435278.14	68784.04	10.10	3.87	-5.00
639.90	0.70	46.80	639.84	6.42	1.38	6.04	0.26	-0.12	-18.07	-123.75	25.90	631.54	435278.33	68784.31	12.17	5.40	-3.73
652.00	0.70	57.50	651.94	6.51	1.50	6.11	0.32	0.00	26.53	95.35	12.10	643.64	435278.42	68784.43	12.98	4.76	-4.68
665.00	0.40	39.50	664.94	6.59	1.60	6.17	0.79	-0.69	-41.54	-158.85	13.00	656.64	435278.50	68784.53	13.63	6.10	-2.96
677.90	0.40	29.50	677.84	6.66	1.65	6.23	0.16	0.00	-23.26	-95.00	12.90	669.54	435278.57	68784.58	13.89	6.61	-1.85

MD m	Inc °	Azi °	TVD m	NS m	EW m	VS m	DLS (°/30m)	BR (°/30m)	TR (°/30m)	TF °	CL m	TVD SS m	Map Northing Meters	Map Easting Meters	Closure Azi °	Up/Dn m	Left/Right m
690.70	0.50	54.60	690.64	6.73	1.71	6.29	0.51	0.23	58.83	76.02	12.80	682.34	435278.64	68784.64	14.29	5.30	-4.49
703.50	0.50	54.20	703.44	6.80	1.81	6.33	0.01	0.00	-0.94	-90.20	12.80	695.14	435278.71	68784.74	14.88	5.44	-4.46
716.20	0.30	68.90	716.14	6.84	1.88	6.36	0.53	-0.47	34.72	160.06	12.70	707.84	435278.75	68784.81	15.38	4.22	-5.70
729.10	0.30	79.90	729.04	6.86	1.95	6.37	0.13	0.00	25.58	95.50	12.90	720.74	435278.77	68784.88	15.84	3.12	-6.41
741.80	0.30	26.70	741.74	6.89	1.99	6.39	0.63	0.00	-125.67	-116.60	12.70	733.44	435278.80	68784.92	16.13	7.05	-1.32
754.60	0.10	65.40	754.54	6.93	2.02	6.42	0.54	-0.47	90.70	164.27	12.80	746.24	435278.84	68784.95	16.25	4.72	-5.46
767.80	0.20	86.70	767.74	6.93	2.05	6.42	0.26	0.23	48.41	40.08	13.20	759.44	435278.84	68784.98	16.49	2.45	-6.80
780.20	0.10	39.60	780.14	6.94	2.08	6.43	0.37	-0.24	-113.95	-150.96	12.40	771.84	435278.85	68785.01	16.68	6.68	-2.82
793.20	0.30	33.90	793.14	6.98	2.11	6.46	0.46	0.46	-13.15	-8.54	13.00	784.84	435278.89	68785.04	16.80	6.97	-2.14
805.90	0.40	60.50	805.83	7.03	2.16	6.50	0.44	0.24	62.83	72.15	12.70	797.53	435278.94	68785.09	17.11	5.35	-5.05
818.70	0.40	66.60	818.63	7.07	2.24	6.52	0.10	0.00	14.30	93.05	12.80	810.33	435278.98	68785.17	17.61	4.87	-5.60
832.00	0.40	53.90	831.93	7.12	2.32	6.55	0.20	0.00	-28.65	-96.35	13.30	823.63	435279.03	68785.25	18.09	6.07	-4.38
844.50	0.40	58.30	844.43	7.16	2.40	6.59	0.07	0.00	10.56	92.20	12.50	836.13	435279.07	68785.33	18.50	5.80	-4.84
857.30	0.40	73.20	857.23	7.20	2.48	6.61	0.24	0.00	34.92	97.45	12.80	848.93	435279.11	68785.41	18.99	4.45	-6.18
870.50	0.40	54.30	870.43	7.24	2.56	6.63	0.30	0.00	-42.95	-99.45	13.20	862.13	435279.15	68785.49	19.46	6.30	-4.39
880.80	1.20	356.30	880.73	7.37	2.58	6.75	3.04	2.33	168.93	-76.95	10.30	872.43	435279.28	68785.51	19.30	7.19	3.05
896.10	2.10	353.40	896.03	7.81	2.54	7.19	1.77	1.76	-5.69	-6.75	15.30	887.73	435279.72	68785.47	18.01	7.46	3.42
908.80	2.90	356.60	908.71	8.36	2.49	7.74	1.92	1.89	7.56	11.50	12.70	900.41	435280.27	68785.42	16.61	8.14	2.99
921.70	2.90	351.50	921.60	9.01	2.43	8.39	0.60	0.00	-11.86	-92.55	12.90	913.30	435280.92	68785.36	15.07	8.21	3.75
934.60	3.40	356.20	934.48	9.71	2.35	9.10	1.31	1.16	10.93	29.68	12.90	926.18	435281.62	68785.28	13.61	8.67	3.10
947.40	4.20	339.50	947.25	10.53	2.16	9.94	3.18	1.87	-39.14	-62.67	12.80	938.95	435282.44	68785.09	11.61	7.49	5.44
959.90	4.90	0.60	959.71	11.49	2.01	10.91	4.32	1.68	50.64	78.05	12.50	951.41	435283.40	68784.94	9.91	8.94	2.43
973.10	5.90	1.40	972.85	12.74	2.03	12.13	2.28	2.27	1.82	4.70	13.20	964.55	435284.65	68784.96	9.06	8.95	2.58
985.60	6.90	2.90	985.27	14.13	2.08	13.48	2.43	2.40	3.60	10.24	12.50	976.97	435286.04	68785.01	8.39	9.00	2.68
998.40	8.00	4.00	997.97	15.78	2.19	15.09	2.60	2.58	2.58	7.93	12.80	989.67	435287.69	68785.12	7.88	9.04	2.95
1011.50	9.00	2.90	1010.92	17.72	2.30	16.97	2.32	2.29	-2.52	-9.78	13.10	1002.62	435289.63	68785.23	7.40	8.96	3.63
1024.10	10.00	1.90	1023.35	19.79	2.39	18.99	2.41	2.38	-2.38	-9.87	12.60	1015.05	435291.70	68785.32	6.88	8.85	4.30
1036.80	10.80	359.20	1035.84	22.09	2.41	21.24	2.21	1.89	6.38	-32.68	12.70	1027.54	435294.00	68785.34	6.22	8.55	5.19
1049.90	11.50	357.30	1048.69	24.62	2.33	23.74	1.81	1.60	-4.35	-28.63	13.10	1040.39	435296.53	68785.26	5.40	8.19	5.92
1062.40	12.30	355.70	1060.92	27.19	2.17	26.30	2.08	1.92	-3.84	-23.20	12.50	1052.62	435299.10	68785.10	4.56	7.77	6.51
1075.20	13.00	355.00	1073.41	29.98	1.94	29.08	1.68	1.64	-1.64	-12.69	12.80	1065.11	435301.89	68784.87	3.71	7.36	6.96
1088.40	13.80	355.00	1086.25	33.03	1.68	32.13	1.82	1.82	0.00	0.00	13.20	1077.95	435304.94	68784.61	2.90	6.93	7.33
1101.30	15.40	352.60	1098.74	36.26	1.32	35.37	3.98	3.72	-5.58	-21.88	12.90	1090.44	435308.17	68784.25	2.09	6.23	7.91
1113.70	16.90	351.10	1110.65	39.68	0.83	38.81	3.77	3.63	-3.63	-16.27	12.40	1102.35	435311.59	68783.76	1.20	5.74	8.25
1126.90	18.90	350.90	1123.21	43.68	0.19	42.87	4.55	4.55	-0.45	-1.86	13.20	1114.91	435315.59	68783.12	0.25	5.57	8.43
1139.10	20.40	350.50	1134.70	47.73	-0.47	46.97	3.70	3.69	-0.98	-5.31	12.20	1126.40	435319.64	68782.46	359.44	5.52	8.59
1153.00	21.80	350.20	1147.67	52.66	-1.31	51.97	3.03	3.02	-0.65	-4.55	13.90	1139.37	435324.57	68781.62	358.58	5.57	8.75
1165.30	22.80	350.00	1159.04	57.26	-2.11	56.64	2.45	2.44	-0.49	-4.43	12.30	1150.74	435329.17	68780.82	357.89	5.65	8.86
1177.90	24.00	349.50	1170.61	62.19	-3.00	61.64	2.90	2.86	-1.19	-9.63	12.60	1162.31	435334.10	68779.93	357.24	5.70	8.98
1190.80	24.60	348.00	1182.37	67.39	-4.04	66.95	2.00	1.40	-3.49	-46.50	12.90	1174.07	435339.30	68778.89	356.57	5.57	9.10
1203.40	25.70	347.90	1193.77	72.63	-5.16	72.30	2.62	2.62	-0.24	-2.26	12.60	1185.47	435344.54	68777.77	355.94	5.59	9.02
1216.11	25.80	347.50	1205.22	78.02	-6.33	77.82	0.47	0.24	-0.94	-60.26	12.71	1196.92	435349.93	68776.60	355.36	5.47	8.94

MD	Inc	Azi	TVD	NS	EW	VS	DLS	BR	TR	TF	CL	TVD SS	Map Northing	Map Easting	Closure Azi	Up/Dn	Left/Right
m	°	°	m	m	m	m	(°/30m)	(°/30m)	(°/30m)	°	m	m	Meters	Meters	°	m	m
1242.20	26.00	345.30	1228.69	89.10	-9.01	89.20	1.13	0.23	-2.53	-79.23	26.09	1220.39	435361.01	68773.92	354.22	4.36	8.58
1255.00	27.10	345.50	1240.14	94.64	-10.45	94.91	2.59	2.58	0.47	4.74	12.80	1231.84	435366.55	68772.48	353.70	3.78	8.18
1307.70	25.70	345.90	1287.34	117.34	-16.24	118.30	0.80	-0.80	0.23	172.94	52.70	1279.04	435389.25	68766.69	352.12	0.07	6.68
1321.70	26.50	345.90	1299.91	123.31	-17.74	124.45	1.71	1.71	0.00	0.00	14.00	1291.61	435395.22	68765.19	351.81	-1.01	6.30
1334.20	27.30	346.00	1311.06	128.80	-19.12	130.10	1.92	1.92	0.24	3.28	12.50	1302.76	435400.71	68763.81	351.56	-1.79	5.98
1347.40	28.50	346.30	1322.73	134.80	-20.60	136.26	2.75	2.73	0.68	6.80	13.20	1314.43	435406.71	68762.33	351.31	-2.37	5.67
1360.30	29.60	346.80	1334.00	140.89	-22.05	142.52	2.62	2.56	1.16	12.67	12.90	1325.70	435412.80	68760.88	351.10	-2.67	5.42
1373.10	30.90	347.40	1345.06	147.17	-23.49	148.97	3.13	3.05	1.41	13.35	12.80	1336.76	435419.08	68759.44	350.93	-2.69	5.24
1385.40	31.30	347.20	1355.59	153.37	-24.89	155.32	1.01	0.98	-0.49	-14.57	12.30	1347.29	435425.28	68758.04	350.78	-2.59	5.06
1398.20	31.60	347.50	1366.51	159.89	-26.35	161.99	0.79	0.70	0.70	27.68	12.80	1358.21	435431.80	68756.58	350.64	-2.37	4.90
1411.00	31.80	347.30	1377.40	166.45	-27.82	168.71	0.53	0.47	-0.47	-27.81	12.80	1369.10	435438.36	68755.11	350.51	-2.14	4.72
1424.30	32.00	347.40	1388.69	173.31	-29.36	175.74	0.47	0.45	0.23	14.84	13.30	1380.39	435445.22	68753.57	350.39	-1.82	4.54
1437.10	32.20	347.30	1399.54	179.95	-30.85	182.54	0.49	0.47	-0.23	-14.92	12.80	1391.24	435451.86	68752.08	350.27	-1.49	4.37
1449.90	32.30	347.10	1410.36	186.61	-32.36	189.36	0.34	0.23	-0.47	-46.95	12.80	1402.06	435458.52	68750.57	350.16	-1.12	4.17
1462.20	32.70	347.50	1420.74	193.06	-33.81	195.97	1.11	0.98	0.98	28.42	12.30	1412.44	435464.97	68749.12	350.07	-0.69	4.00
1475.00	32.80	347.40	1431.50	199.81	-35.32	202.89	0.27	0.23	-0.23	-28.45	12.80	1423.20	435471.72	68747.61	349.98	-0.21	3.84
1487.80	32.10	347.40	1442.30	206.52	-36.82	209.75	1.64	-1.64	0.00	180.00	12.80	1434.00	435478.43	68746.11	349.89	0.21	3.67
1500.60	31.30	347.30	1453.19	213.08	-38.29	216.48	1.88	-1.87	-0.23	-176.28	12.80	1444.89	435484.99	68744.64	349.81	0.46	3.49
1513.60	31.20	346.70	1464.31	219.65	-39.81	223.22	0.75	-0.23	-1.38	-108.07	13.00	1456.01	435491.56	68743.12	349.73	0.58	3.28
1526.40	31.70	347.10	1475.23	226.16	-41.32	229.89	1.27	1.17	0.94	22.83	12.80	1466.93	435498.07	68741.61	349.65	0.80	3.05
1551.40	32.00	346.80	1496.46	239.01	-44.30	243.07	0.41	0.36	-0.36	-27.95	25.00	1488.16	435510.92	68738.63	349.50	1.35	2.62
1565.00	32.40	347.00	1507.97	246.07	-45.94	250.31	0.91	0.88	0.44	15.00	13.60	1499.67	435517.98	68736.99	349.42	1.74	2.38
1577.70	31.90	347.30	1518.72	252.65	-47.44	257.07	1.24	-1.18	0.71	162.42	12.70	1510.42	435524.56	68735.49	349.36	2.10	2.17
1590.70	30.70	347.30	1529.83	259.24	-48.93	263.82	2.77	-2.77	0.00	180.00	13.00	1521.53	435531.15	68734.00	349.31	2.27	1.99
1603.20	30.10	347.00	1540.61	265.41	-50.33	270.14	1.49	-1.44	-0.72	-165.93	12.50	1532.31	435537.32	68732.60	349.26	2.22	1.80
1615.80	29.90	348.10	1551.52	271.56	-51.69	276.44	1.39	-0.48	2.62	110.46	12.60	1543.22	435543.47	68731.24	349.22	2.12	1.62
1628.80	29.90	348.60	1562.79	277.91	-53.00	282.92	0.58	0.00	1.15	90.22	13.00	1554.49	435549.82	68729.93	349.20	1.98	1.54
1641.60	30.00	348.50	1573.88	284.17	-54.27	289.31	0.26	0.23	-0.23	-26.57	12.80	1565.58	435556.08	68728.66	349.19	1.84	1.50
1655.10	30.20	348.70	1585.56	290.81	-55.61	296.08	0.50	0.44	0.44	26.72	13.50	1577.26	435562.72	68727.32	349.17	1.73	1.46
1667.50	30.30	348.70	1596.28	296.93	-56.83	302.32	0.24	0.24	0.00	0.00	12.40	1587.98	435568.84	68726.10	349.16	1.65	1.44
1680.20	30.50	348.40	1607.23	303.23	-58.11	308.75	0.59	0.47	-0.71	-37.33	12.70	1598.93	435575.14	68724.82	349.15	1.61	1.41
1692.80	30.80	348.30	1618.07	309.52	-59.41	315.17	0.72	0.71	-0.24	-9.69	12.60	1609.77	435581.43	68723.52	349.14	1.62	1.35
1705.90	30.00	349.70	1629.37	316.03	-60.67	321.80	2.45	-1.83	3.21	139.08	13.10	1621.07	435587.94	68722.26	349.13	1.61	1.33
1718.80	29.70	350.00	1640.56	322.35	-61.80	328.22	0.78	-0.70	0.70	153.67	12.90	1632.26	435594.26	68721.13	349.15	1.45	1.43
1731.50	30.10	349.90	1651.57	328.58	-62.91	334.55	0.95	0.94	-0.24	-7.15	12.70	1643.27	435600.49	68720.02	349.16	1.30	1.55
1744.40	30.30	350.10	1662.72	334.97	-64.03	341.04	0.52	0.47	0.47	26.79	12.90	1654.42	435606.88	68718.90	349.18	1.22	1.68
1757.20	30.50	349.80	1673.76	341.35	-65.16	347.52	0.59	0.47	-0.70	-37.33	12.80	1665.46	435613.26	68717.77	349.19	1.17	1.80
1770.00	30.50	350.00	1684.78	347.75	-66.30	354.01	0.24	0.00	0.47	90.09	12.80	1676.48	435619.66	68716.63	349.21	1.16	1.91
1782.90	30.70	349.90	1695.89	354.21	-67.45	360.58	0.48	0.47	-0.23	-14.32	12.90	1687.59	435626.12	68715.48	349.22	1.16	2.04
1795.60	30.70	349.70	1706.81	360.60	-68.60	367.06	0.24	0.00	-0.47	-90.09	12.70	1698.51	435632.51	68714.33	349.23	1.18	2.14
1808.00	30.20	348.70	1717.50	366.77	-69.77	373.35	1.72	-1.21	-2.42	-135.04	12.40	1709.20	435638.68	68713.16	349.23	1.12	2.19
1821.50	30.10	348.20	1729.17	373.41	-71.13	380.13	0.60	-0.22	-1.11	-111.93	13.50	1720.87	435645.32	68711.80	349.21	1.00	2.15

MD m	Inc °	Azi °	TVD m	NS m	EW m	VS m	DLS (°/30m)	BR (°/30m)	TR (°/30m)	TF °	CL m	TVD SS m	Map Northing Meters	Map Easting Meters	Closure Azi °	Up/Dn m	Left/Right m
1834.10	30.20	348.10	1740.07	379.60	-72.43	386.45	0.27	0.24	-0.24	-26.71	12.60	1731.77	435651.51	68710.50	349.20	0.90	2.07
1847.20	30.30	348.40	1751.38	386.07	-73.78	393.05	0.42	0.23	0.69	56.64	13.10	1743.08	435657.98	68709.15	349.18	0.84	1.99
1859.90	30.30	348.40	1762.35	392.34	-75.06	399.46	0.00	0.00	0.00	0.00	12.70	1754.05	435664.25	68707.87	349.17	0.77	1.93
1872.70	30.40	348.20	1773.39	398.68	-76.38	405.93	0.33	0.23	-0.47	-45.39	12.80	1765.09	435670.59	68706.55	349.16	0.72	1.87
1885.30	30.50	348.20	1784.26	404.93	-77.68	412.31	0.24	0.24	0.00	0.00	12.60	1775.96	435676.84	68705.25	349.14	0.69	1.79
1898.40	30.60	348.00	1795.54	411.44	-79.05	418.97	0.33	0.23	-0.46	-45.56	13.10	1787.24	435683.35	68703.88	349.12	0.68	1.70
1911.00	30.70	348.00	1806.38	417.72	-80.39	425.39	0.24	0.24	0.00	0.00	12.60	1798.08	435689.63	68702.54	349.11	0.69	1.60
1923.80	30.70	348.30	1817.38	424.12	-81.73	431.92	0.36	0.00	0.70	90.13	12.80	1809.08	435696.03	68701.20	349.09	0.72	1.51
1936.70	31.00	348.50	1828.46	430.60	-83.06	438.54	0.74	0.70	0.47	18.96	12.90	1820.16	435702.51	68699.87	349.08	0.79	1.45
1949.30	31.00	348.30	1839.26	436.96	-84.37	445.03	0.25	0.00	-0.48	-90.09	12.60	1830.96	435708.87	68698.56	349.07	0.88	1.40
1962.50	31.10	348.40	1850.57	443.63	-85.74	451.83	0.26	0.23	0.23	27.33	13.20	1842.27	435715.54	68697.19	349.06	0.99	1.34
1975.20	31.20	348.60	1861.44	450.06	-87.05	458.40	0.34	0.24	0.47	46.06	12.70	1853.14	435721.97	68695.88	349.05	1.12	1.29
1987.80	31.30	348.40	1872.21	456.47	-88.35	464.94	0.34	0.24	-0.48	-46.14	12.60	1863.91	435728.38	68694.58	349.05	1.26	1.25
2000.60	31.30	348.50	1883.15	462.98	-89.69	471.59	0.12	0.00	0.23	90.04	12.80	1874.85	435734.89	68693.24	349.04	1.42	1.20
2013.60	31.70	348.20	1894.23	469.64	-91.06	478.38	0.99	0.92	-0.69	-21.53	13.00	1885.93	435741.55	68691.87	349.03	1.63	1.14
2026.40	31.70	348.30	1905.12	476.22	-92.43	485.11	0.12	0.00	0.23	90.04	12.80	1896.82	435748.13	68690.50	349.02	1.88	1.07
2039.20	32.20	348.30	1915.98	482.85	-93.80	491.88	1.17	1.17	0.00	0.00	12.80	1907.68	435754.76	68689.13	349.01	2.18	1.00
2051.90	32.30	348.40	1926.72	489.49	-95.17	498.66	0.27	0.24	0.24	28.13	12.70	1918.42	435761.40	68687.76	349.00	2.55	0.93
2064.80	32.40	348.40	1937.62	496.25	-96.56	505.56	0.23	0.23	0.00	0.00	12.90	1929.32	435768.16	68686.37	348.99	2.95	0.88
2077.60	32.40	348.50	1948.43	502.97	-97.93	512.42	0.13	0.00	0.23	90.04	12.80	1940.13	435774.88	68685.00	348.98	3.36	0.82
2089.80	32.70	348.60	1958.71	509.41	-99.23	518.98	0.75	0.74	0.25	10.21	12.20	1950.41	435781.32	68683.70	348.98	3.78	0.78
2103.20	32.90	348.80	1969.97	516.52	-100.66	526.24	0.51	0.45	0.45	28.53	13.40	1961.67	435788.43	68682.27	348.97	4.30	0.75
2117.50	32.90	348.00	1981.98	524.13	-102.22	534.00	0.91	0.00	-1.68	-90.34	14.30	1973.68	435796.04	68680.71	348.96	4.87	0.74
2128.90	32.70	348.60	1991.56	530.18	-103.47	540.18	1.00	-0.53	1.58	121.86	11.40	1983.26	435802.09	68679.46	348.96	5.32	0.63
2141.30	32.60	348.10	2002.00	536.73	-104.82	546.87	0.70	-0.24	-1.21	-110.55	12.40	1993.70	435808.64	68678.11	348.95	5.76	0.61
2154.20	32.60	348.00	2012.87	543.53	-106.26	553.82	0.13	0.00	-0.23	-90.04	12.90	2004.57	435815.44	68676.67	348.94	6.22	0.53
2166.70	32.60	348.10	2023.40	550.12	-107.65	560.55	0.13	0.00	0.24	90.04	12.50	2015.10	435822.03	68675.28	348.93	6.66	0.42
2180.10	33.00	347.80	2034.67	557.22	-109.17	567.81	0.97	0.90	-0.67	-22.24	13.40	2026.37	435829.13	68673.76	348.92	7.17	0.34
2192.97	33.00	347.80	2045.46	564.07	-110.65	574.82	0.00	0.00	0.00	0.00	12.87	2037.16	435835.98	68672.28	348.90	7.72	0.22
2205.80	32.50	348.20	2056.25	570.86	-112.09	581.75	1.27	-1.17	0.94	156.77	12.83	2047.95	435842.77	68670.84	348.89	8.21	0.07
2218.63	32.00	348.00	2067.10	577.56	-113.51	588.60	1.20	-1.17	-0.47	-168.04	12.83	2058.80	435849.47	68669.42	348.88	8.58	0.00
2231.30	32.50	348.10	2077.82	584.17	-114.91	595.36	1.19	1.18	0.24	6.13	12.67	2069.52	435856.08	68668.02	348.87	8.95	-0.11
2244.00	32.50	347.70	2088.53	590.84	-116.34	602.18	0.51	0.00	-0.94	-90.17	12.70	2080.23	435862.75	68666.59	348.86	9.38	-0.16
2257.00	32.80	347.80	2099.47	597.70	-117.82	609.19	0.70	0.69	0.23	10.24	13.00	2091.17	435869.61	68665.11	348.85	9.84	-0.31
2269.00	33.00	347.70	2109.55	604.07	-119.21	615.71	0.52	0.50	-0.25	-15.24	12.00	2101.25	435875.98	68663.72	348.84	10.33	-0.42
2282.70	33.00	347.40	2121.04	611.35	-120.82	623.17	0.36	0.00	-0.66	-90.13	13.70	2112.74	435883.26	68662.11	348.82	10.91	-0.53
2295.30	32.70	347.30	2131.62	618.02	-122.31	630.00	0.73	-0.71	-0.24	-169.79	12.60	2123.32	435889.93	68660.62	348.81	11.41	-0.69
2308.40	32.90	347.10	2142.63	624.94	-123.89	637.09	0.52	0.46	-0.46	-28.53	13.10	2134.33	435896.85	68659.04	348.79	11.93	-0.85
2321.30	32.50	347.40	2153.49	631.74	-125.42	644.06	1.00	-0.93	0.70	158.07	12.90	2145.19	435903.65	68657.51	348.77	12.40	-1.09
2334.10	31.90	347.70	2164.32	638.40	-126.89	650.87	1.46	-1.41	0.70	165.21	12.80	2156.02	435910.31	68656.04	348.76	12.76	-1.30
2346.90	32.30	347.90	2175.16	645.05	-128.33	657.67	0.97	0.94	0.47	14.96	12.80	2166.86	435916.96	68654.60	348.75	13.07	-1.46
2359.80	32.20	347.40	2186.07	651.77	-129.80	664.56	0.66	-0.23	-1.16	-110.76	12.90	2177.77	435923.68	68653.13	348.74	13.21	-1.52

MD	Inc	Azi	TVD	NS	EW	VS	DLS	BR	TR	TF	CL	TVD SS	Map Northing	Map Easting	Closure Azi	Up/Dn	Left/Right
m	°	°	m	m	m	m	(°/30m)	(°/30m)	(°/30m)	°	m	m	Meters	Meters	°	m	m
2372.70	32.40	347.50	2196.98	658.50	-131.30	671.45	0.48	0.47	0.23	15.00	12.90	2188.68	435930.41	68651.63	348.72	13.11	-1.71
2385.30	32.40	347.60	2207.62	665.09	-132.76	678.19	0.13	0.00	0.24	90.04	12.60	2199.32	435937.00	68650.17	348.71	12.78	-1.90
2398.00	32.80	347.60	2218.32	671.78	-134.23	685.03	0.94	0.94	0.00	0.00	12.70	2210.02	435943.69	68648.70	348.70	12.25	-2.07
2410.80	33.60	348.40	2229.03	678.63	-135.68	692.04	2.14	1.87	1.87	29.04	12.80	2220.73	435950.54	68647.25	348.69	11.59	-2.32
2423.60	34.00	348.40	2239.66	685.61	-137.11	699.16	0.94	0.94	0.00	0.00	12.80	2231.36	435957.52	68645.82	348.69	10.83	-2.39
2436.50	34.40	348.90	2250.33	692.72	-138.54	706.41	1.14	0.93	1.16	35.30	12.90	2242.03	435964.63	68644.39	348.69	9.89	-2.50
2449.30	35.00	349.30	2260.86	699.87	-139.92	713.70	1.50	1.41	0.94	20.95	12.80	2252.56	435971.78	68643.01	348.69	8.83	-2.52
2462.00	35.60	349.60	2271.22	707.09	-141.26	721.04	1.48	1.42	0.71	16.24	12.70	2262.92	435979.00	68641.67	348.70	7.67	-2.48
2474.50	35.70	349.60	2281.38	714.25	-142.58	728.32	0.24	0.24	0.00	0.00	12.50	2273.08	435986.16	68640.35	348.71	6.39	-2.38
2487.70	36.00	350.20	2292.08	721.86	-143.93	736.05	1.05	0.68	1.36	49.76	13.20	2283.78	435993.77	68639.00	348.72	4.80	-2.26
2500.40	36.60	350.60	2302.31	729.28	-145.19	743.57	1.52	1.42	0.94	21.70	12.70	2294.01	436001.19	68637.74	348.74	3.14	-2.05
2512.30	36.80	351.00	2311.85	736.30	-146.32	750.68	0.79	0.50	1.01	50.24	11.90	2303.55	436008.21	68636.61	348.76	3.09	-2.93
2526.10	37.20	350.70	2322.88	744.50	-147.65	758.98	0.95	0.87	-0.65	-24.41	13.80	2314.58	436016.41	68635.28	348.78	-0.15	11.46
2538.40	38.30	351.20	2332.60	751.93	-148.83	766.51	2.78	2.68	1.22	15.75	12.30	2324.30	436023.84	68634.10	348.80	-1.61	11.78
2551.50	38.90	351.40	2342.84	760.01	-150.07	774.67	1.40	1.37	0.46	11.83	13.10	2334.54	436031.92	68632.86	348.83	-3.04	12.18
2564.00	38.80	351.60	2352.57	767.77	-151.22	782.51	0.39	-0.24	0.48	128.64	12.50	2344.27	436039.68	68631.71	348.86	-4.33	12.60
2576.70	38.60	351.00	2362.48	775.62	-152.43	790.44	1.00	-0.47	-1.42	-118.30	12.70	2354.18	436047.53	68630.50	348.88	-5.81	12.94
2590.50	39.50	350.60	2373.20	784.20	-153.82	799.13	2.03	1.96	-0.87	-15.80	13.80	2364.90	436056.11	68629.11	348.90	-7.32	13.23
2602.70	40.80	350.40	2382.53	791.96	-155.11	807.00	3.21	3.20	-0.49	-5.74	12.20	2374.23	436063.87	68627.82	348.92	-8.40	13.44
2615.30	41.30	350.50	2392.03	800.12	-156.49	815.27	1.20	1.19	0.24	7.52	12.60	2383.73	436072.03	68626.44	348.93	-9.25	13.69
2628.30	41.90	349.90	2401.75	808.62	-157.96	823.90	1.66	1.38	-1.38	-33.81	13.00	2393.45	436080.53	68624.97	348.95	-10.13	13.83
2640.90	42.50	349.70	2411.08	816.95	-159.45	832.36	1.46	1.43	-0.48	-12.69	12.60	2402.78	436088.86	68623.48	348.96	-10.78	13.94
2654.00	42.90	349.70	2420.71	825.69	-161.04	841.25	0.92	0.92	0.00	0.00	13.10	2412.41	436097.60	68621.89	348.96	-11.31	14.07
2666.80	43.10	349.80	2430.07	834.28	-162.60	849.97	0.50	0.47	0.23	18.87	12.80	2421.77	436106.19	68620.33	348.97	-11.74	14.22
2679.90	43.00	349.70	2439.65	843.08	-164.19	858.92	0.28	-0.23	-0.23	-145.72	13.10	2431.35	436114.99	68618.74	348.98	-12.20	14.34
2692.50	43.10	349.60	2448.85	851.54	-165.73	867.52	0.29	0.24	-0.24	-34.36	12.60	2440.55	436123.45	68617.20	348.99	-12.65	14.44
2705.40	43.50	349.60	2458.24	860.24	-167.33	876.36	0.93	0.93	0.00	0.00	12.90	2449.94	436132.15	68615.60	348.99	-13.03	14.55
2718.30	43.40	349.30	2467.61	868.97	-168.95	885.24	0.53	-0.23	-0.70	-115.97	12.90	2459.31	436140.88	68613.98	349.00	-13.44	14.59
2736.10	43.60	349.30	2480.52	881.01	-171.23	897.49	0.34	0.34	0.00	0.00	17.80	2472.22	436152.92	68611.70	349.00	-13.90	14.68
2743.50	43.50	349.10	2485.88	886.01	-172.18	902.59	0.69	-0.41	-0.81	-126.04	7.40	2477.58	436157.92	68610.75	349.00	-14.13	14.68
2756.80	43.50	349.40	2495.53	895.01	-173.89	911.74	0.47	0.00	0.68	90.11	13.30	2487.23	436166.92	68609.04	349.00	-14.42	14.79
2769.30	43.40	348.80	2504.60	903.45	-175.52	920.34	1.02	-0.24	-1.44	-103.84	12.50	2496.30	436175.36	68607.41	349.01	-14.87	14.71
2781.80	43.50	349.00	2513.68	911.89	-177.17	928.93	0.41	0.24	0.48	54.05	12.50	2505.38	436183.80	68605.76	349.00	-15.17	14.75
2795.00	43.30	348.90	2523.27	920.79	-178.91	938.00	0.48	-0.45	-0.23	-161.08	13.20	2514.97	436192.70	68604.02	349.00	-15.56	14.74
2807.90	43.20	348.70	2532.67	929.46	-180.63	946.84	0.39	-0.23	-0.47	-126.19	12.90	2524.37	436201.37	68602.30	349.00	-15.99	14.69
2820.70	43.00	348.70	2542.01	938.03	-182.34	955.59	0.47	-0.47	0.00	180.00	12.80	2533.71	436209.94	68600.59	349.00	-16.41	14.66
2833.30	42.50	348.70	2551.26	946.42	-184.02	964.14	1.19	-1.19	0.00	180.00	12.60	2542.96	436218.33	68598.91	349.00	-16.90	14.63
2840.40	42.20	348.70	2556.51	951.11	-184.96	968.92	1.27	-1.27	0.00	180.00	7.10	2548.21	436223.02	68597.97	349.00	-17.23	14.62
2863.00	42.20	348.70	2573.25	966.00	-187.93	984.10	0.00	0.00	0.00	0.00	22.60	2564.95	436237.91	68595.00	348.99	-18.33	14.57

Date: 17-03-2020			13 3/8" Casing Tally			Rig: VDD 370.2 VarioRig			Well: TNT-GT-01		
DSV:			13 3/8" 68# K55 BTC			 					
Weight Lbs/ft	68.00	lbs/ft									
Casing ID inch	12.415	inch									
Cap	78.100	L/m									
Connection	BTC	M/u Loss	0.130	m		Mud weight	1.17 sg				
M/u Torque Min	5390.00	ft.lbs	7308.000	Nm		Bouyancy fact.	0.85				
M/u Torque Opt	7180.00	ft.lbs	9735.000	Nm		Block weight	0 Klbs				
M/u Torque Max	8980.00	ft.lbs	12175.000	Nm		Rathole:	5.42 m				
90% Burst	214	bar				Section TD:	1280.00 m				
90% Collapse	120	bar				Shoe Depth :	1274.58 m				
Tensile Strength	485	ton				Capacity	78.10 l/m				
Joint no	Length m	Less m/u loss	Cum Length	Jt Btm m	Jt Top m	No.of joints	Remarks	Centraliser	Hookload T		
13-3/8" Shoe	1.08	1.08	1.08	1274.58	1273.50	shoe			0		
1	11.69	11.56	12.64	1273.50	1261.94	1		Centralizer	1		
2	11.93	11.80	24.44	1261.94	1250.14	2		Centralizer	2		
3	11.40	11.27	35.71	1250.14	1238.87	3			3		
4	11.85	11.72	47.43	1238.87	1227.15	4		Centralizer	4		
5	11.26	11.13	58.56	1227.15	1216.02	5			5		
6	11.90	11.77	70.33	1216.02	1204.25	6		Centralizer	6		
7	11.36	11.23	81.56	1204.25	1193.02	7			7		
8	11.92	11.79	93.35	1193.02	1181.23	8		Centralizer	8		
9	11.77	11.64	104.99	1181.23	1169.59	9			9		
10	11.85	11.72	116.71	1169.59	1157.87	10		Centralizer	10		
11	11.98	11.85	128.56	1157.87	1146.02	11			11		
12	11.94	11.81	140.37	1146.02	1134.21	12		Centralizer	12		
13	11.97	11.84	152.21	1134.21	1122.37	13			13		
14	11.95	11.82	164.03	1122.37	1110.55	14		Centralizer	14		
15	11.96	11.83	175.86	1110.55	1098.72	15			15		
16	12.01	11.88	187.74	1098.72	1086.84	16		Centralizer	16		
17	11.48	11.35	199.09	1086.84	1075.49	17			17		
18	11.96	11.83	210.92	1075.49	1063.66	18		Centralizer	18		
19	12.02	11.89	222.81	1063.66	1051.77	19			19		
20	11.60	11.47	234.28	1051.77	1040.30	20		Centralizer	20		
21	11.93	11.80	246.08	1040.30	1028.50	21			21		
22	12.02	11.89	257.97	1028.50	1016.61	22		Centralizer	22		
23	12.05	11.92	269.89	1016.61	1004.69	23			23		
24	11.86	11.73	281.62	1004.69	992.96	24		Centralizer	24		
25	12.01	11.88	293.50	992.96	981.08	25			25		
26	11.92	11.79	305.29	981.08	969.29	26		Centralizer	26		
27	11.96	11.83	317.12	969.29	957.46	27			27		
28	12.00	11.87	328.99	957.46	945.59	28		Centralizer	28		
29	12.00	11.87	340.86	945.59	933.72	29			29		
30	11.96	11.83	352.69	933.72	921.89	30		Centralizer	30		
31	11.88	11.75	364.44	921.89	910.14	31			31		
32	11.86	11.73	376.17	910.14	898.41	32			32		
33	11.98	11.85	388.02	898.41	886.56	33		Centralizer	33		
34	11.96	11.83	399.85	886.56	874.73	34			34		
35	11.52	11.39	411.24	874.73	863.34	35			35		
36	11.49	11.36	422.60	863.34	851.98	36		Centralizer	36		
37	11.82	11.69	434.29	851.98	840.29	37			37		
38	11.11	10.98	445.27	840.29	829.31	38			38		
39	11.94	11.81	457.08	829.31	817.50	39		Centralizer	39		
40	11.79	11.66	468.74	817.50	805.84	40			40		
41	11.61	11.48	480.22	805.84	794.36	41			41		
42	12.04	11.91	492.13	794.36	782.45	42		Centralizer	42		
43	12.02	11.89	504.02	782.45	770.56	43			43		
44	11.74	11.61	515.63	770.56	758.95	44			44		
45	11.93	11.80	527.43	758.95	747.15	45		Centralizer	45		
46	11.99	11.86	539.29	747.15	735.29	46			46		
47	11.89	11.76	551.05	735.29	723.53	47			47		
48	11.88	11.75	562.80	723.53	711.78	48		Centralizer	48		
49	11.70	11.57	574.37	711.78	700.21	49			49		
50	11.87	11.74	586.11	700.21	688.47	50			50		
51	11.88	11.75	597.86	688.47	676.72	51		Centralizer	51		
52	10.68	10.55	608.41	676.72	666.17	52			52		
53	11.41	11.28	619.69	666.17	654.89	53			53		
54	11.79	11.66	631.35	654.89	643.23	54		Centralizer	54		
55	11.89	11.76	643.11	643.23	631.47	55			55		
56	11.57	11.44	654.55	631.47	620.03	56			56		
57	11.93	11.80	666.35	620.03	608.23	57		Centralizer	57		
58	11.58	11.45	677.80	608.23	596.78	58			58		
59	11.94	11.81	689.61	596.78	584.97	59			59		
60	12.02	11.89	701.50	584.97	573.08	60		Centralizer	60		
61	11.96	11.83	713.33	573.08	561.25	61			61		

62	11.71	11.58	724.91	561.25	549.67	62			62
63	11.89	11.76	736.67	549.67	537.91	63		Centralizer	63
64	11.93	11.80	748.47	537.91	526.11	64			64
65	11.93	11.80	760.27	526.11	514.31	65			65
66	11.78	11.65	771.92	514.31	502.66	66		Centralizer	66
67	12.01	11.88	783.80	502.66	490.78	67			67
68	11.91	11.78	795.58	490.78	479.00	68			69
69	11.79	11.66	807.24	479.00	467.34	69		Centralizer	70
70	12.02	11.89	819.13	467.34	455.45	70			71
71	11.85	11.72	830.85	455.45	443.73	71			72
72	11.96	11.83	842.68	443.73	431.90	72		Centralizer	73
73	11.82	11.69	854.37	431.90	420.21	73			74
74	11.87	11.74	866.11	420.21	408.47	74			75
75	11.91	11.78	877.89	408.47	396.69	75		Centralizer	76
76	11.95	11.82	889.71	396.69	384.87	76			77
77	12.06	11.93	901.64	384.87	372.94	77			78
78	11.96	11.83	913.47	372.94	361.11	78		Centralizer	79
79	12.00	11.87	925.34	361.11	349.24	79			80
80	11.86	11.73	937.07	349.24	337.51	80			81
81	11.77	11.64	948.71	337.51	325.87	81		Centralizer	82
82	11.82	11.69	960.40	325.87	314.18	82			83
83	12.01	11.88	972.28	314.18	302.30	83			84
84	11.81	11.68	983.96	302.30	290.62	84		Centralizer	85
85	11.91	11.78	995.74	290.62	278.84	85			86
86	11.13	11.00	1006.74	278.84	267.84	86			87
87	11.49	11.36	1018.10	267.84	256.48	87		Centralizer	88
88	11.47	11.34	1029.44	256.48	245.14	88			89
89	11.90	11.77	1041.21	245.14	233.37	89			90
90	12.00	11.87	1053.08	233.37	221.50	90		Centralizer	91
91	11.43	11.30	1064.38	221.50	210.20	91			92
92	11.87	11.74	1076.12	210.20	198.46	92			93
93	11.69	11.56	1087.68	198.46	186.90	93		Centralizer	94
94	11.28	11.15	1098.83	186.90	175.75	94			95
95	11.93	11.80	1110.63	175.75	163.95	95			96
96	12.01	11.88	1122.51	163.95	152.07	96		Centralizer	97
97	12.00	11.87	1134.38	152.07	140.20	97			98
98	11.99	11.86	1146.24	140.20	128.34	98			99
99	12.04	11.91	1158.15	128.34	116.43	99		Centralizer	100
100	11.84	11.71	1169.86	116.43	104.72	100			101
101	11.93	11.80	1181.66	104.72	92.92	101			102
102	11.29	11.16	1192.82	92.92	81.76	102		Centralizer	103
103	11.99	11.86	1204.68	81.76	69.90	103			104
104	11.91	11.78	1216.46	69.90	58.12	104			105
105	11.65	11.52	1227.98	58.12	46.60	105		Centralizer	106
106	11.88	11.75	1239.73	46.60	34.85	106			107
107	11.79	11.66	1251.39	34.85	23.19	107			108
108	11.98	11.85	1263.24	23.19	11.34	108		Centralizer	109
109	11.97	11.84	1275.08	11.34	-0.50	109	0.5m stickup		110

Date: 06-04-2020		9 5/8" Liner Tally				Rig: VDD 370.2 VarioRig			Well: TNT-GT-01			
DSV:		9 5/8" Mixed string				 						
	Weight Lbs/ft	47.00	lbs/ft									
	Casing ID inch	8.681	inch									
	Weight Lbs/ft	51.90	lbs/ft									
	Casing ID inch	8.250	inch									
	Connection	Vam Top	M/u Loss	0.142	m					Mud weight	1.23 sg	
	M/u Torque Min	14400	ft.lbs		Nm					Bouyancy fact.	0.84	
	M/u Torque Opt	15900	ft.lbs		Nm					Block weight	0 Klbs	
	M/u Torque Max	17400	ft.lbs		Nm					Rathole:	6.00 m	
	Connection	TSH W523	M/u Loss	0.121	m							
	M/u Torque Min	18000	ft.lbs		Nm							
	M/u Torque Opt	22000	ft.lbs		Nm							
	M/u Torque Max	32000	ft.lbs		Nm							
	90% Burst		bar				Section TD:	2863.00 m				
	90% Collapse		bar				Shoe Depth :	2857.00 m				
Joint no	Check TK-ring	Length m	Less m/u loss	Cum Length	Jt Btm m	Jt Top m	No.of joints	Remarks	Centraliser	Hookload T		
9 5/8" Shoe joint 1	-	12.07	12.07	12.07	2857.00	2844.93	shoe	Buttres connections	x	1		
Float collar joint 3	-	11.80	11.69	23.76	2844.93	2833.24	1	Buttres connections	x	1		
Cross over Landing collar A	-	11.83	11.72	35.48	2833.24	2821.52	2	Buttres pin x TSH-W523 box		2		
-25	-	11.77	11.65	47.13	2821.52	2809.87	7	TSH-W523 connections	x	3		
-24	-	11.78	11.66	58.79	2809.87	2798.21	8	TSH-W523 connections	x	3		
-23	-	11.78	11.66	70.45	2798.21	2786.55	9	TSH-W523 connections	x	4		
-22	-	11.79	11.67	82.12	2786.55	2774.88	10	TSH-W523 connections	x	5		
-21	-	11.64	11.52	93.64	2774.88	2763.36	11	TSH-W523 connections	x	6		
-20	-	11.79	11.67	105.31	2763.36	2751.69	12	TSH-W523 connections	x	6		
-19	-	11.78	11.66	116.97	2751.69	2740.03	13	TSH-W523 connections	x	7		
-18	-	11.78	11.66	128.62	2740.03	2728.38	14	TSH-W523 connections	x	8		
-17	-	11.79	11.67	140.29	2728.38	2716.71	15	TSH-W523 connections	x	8		
-16	-	11.78	11.66	151.95	2716.71	2705.05	16	TSH-W523 connections	x	9		
-15	-	11.79	11.67	163.62	2705.05	2693.38	17	TSH-W523 connections	x	10		
-14	-	11.79	11.67	175.29	2693.38	2681.71	18	TSH-W523 connections	x	10		
-13	-	11.65	11.53	186.82	2681.71	2670.18	19	TSH-W523 connections	x	11		
-12	-	11.75	11.63	198.45	2670.18	2658.55	20	TSH-W523 connections	x	12		
-11	-	11.80	11.68	210.13	2658.55	2646.87	21	TSH-W523 connections	x	12		
-10	-	11.64	11.52	221.65	2646.87	2635.35	22	TSH-W523 connections	x	13		
-9	-	11.22	11.10	232.75	2635.35	2624.25	23	TSH-W523 connections	x	14		
-8	-	11.63	11.51	244.26	2624.25	2612.74	24	TSH-W523 connections	x	14		
-7	-	11.78	11.66	255.92	2612.74	2601.08	25	TSH-W523 connections	x	15		
-6	-	11.79	11.67	267.59	2601.08	2589.41	26	TSH-W523 connections	x	16		
-5	-	11.78	11.66	279.25	2589.41	2577.75	27	TSH-W523 connections	x	16		
-4	-	11.78	11.66	290.91	2577.75	2566.09	28	TSH-W523 connections	x	17		
-3	-	11.38	11.26	302.17	2566.09	2554.83	29	TSH-W523 connections	x	18		
-2	-	11.21	11.09	313.25	2554.83	2543.75	30	TSH-W523 connections	x	18		
-1	-	11.64	11.52	324.77	2543.75	2532.23	31	TSH-W523 connections	x	19		
0	-	11.79	11.67	336.44	2532.23	2520.56	32	TSH-W523 connections	x	20		
1	-	11.79	11.67	348.11	2520.56	2508.89	33	TSH-W523 connections	x	21		
2	-	11.79	11.67	359.78	2508.89	2497.22	34	TSH-W523 connections	x	21		
3	-	11.48	11.36	371.14	2497.22	2485.86	35	TSH-W523 connections	x	22		
4	-	11.79	11.67	382.81	2485.86	2474.19	36	TSH-W523 connections	x	23		
5	-	11.62	11.50	394.31	2474.19	2462.69	37	TSH-W523 connections	x	23		
6	-	11.78	11.66	405.97	2462.69	2451.03	38	TSH-W523 connections	x	24		
7	-	11.78	11.66	417.63	2451.03	2439.37	39	TSH-W523 connections	x	25		
8	-	11.78	11.66	429.29	2439.37	2427.71	40	TSH-W523 connections	x	25		
9	-	11.78	11.66	440.95	2427.71	2416.05	41	TSH-W523 connections	x	26		
10	-	11.64	11.52	452.47	2416.05	2404.53	42	TSH-W523 connections	x	27		
11	-	11.78	11.66	464.13	2404.53	2392.87	43	TSH-W523 connections	x	27		
Cross Over C		11.87	11.75	475.88	2392.87	2381.12	44	Cross Over		28		
20		11.70	11.56	487.43	2381.12	2369.57	45	GRE VAM TOP	x	29		
21		11.70	11.56	498.99	2369.57	2358.01	46	GRE VAM TOP	x	30		
22		11.69	11.55	510.54	2358.01	2346.46	47	GRE VAM TOP	x	30		
23		11.69	11.55	522.09	2346.46	2334.91	48	GRE VAM TOP	x	31		
24		11.44	11.30	533.39	2334.91	2323.61	49	GRE VAM TOP	x	32		
25		11.68	11.54	544.92	2323.61	2312.08	50	GRE VAM TOP	x	33		
26		11.69	11.55	556.47	2312.08	2300.53	51	GRE VAM TOP	x	33		
27		11.69	11.55	568.02	2300.53	2288.98	52	GRE VAM TOP	x	34		
28		11.40	11.26	579.28	2288.98	2277.72	53	GRE VAM TOP	x	35		
29		11.68	11.54	590.82	2277.72	2266.18	54	GRE VAM TOP	x	36		
30		11.68	11.54	602.35	2266.18	2254.65	55	GRE VAM TOP	x	36		
31		11.69	11.55	613.90	2254.65	2243.10	56	GRE VAM TOP	x	37		
32		11.29	11.15	625.05	2243.10	2231.95	57	GRE VAM TOP	x	38		
33		11.69	11.55	636.60	2231.95	2220.40	58	GRE VAM TOP	x	39		
34		11.66	11.52	648.12	2220.40	2208.88	59	GRE VAM TOP	x	39		
35		11.69	11.55	659.66	2208.88	2197.34	60	GRE VAM TOP	x	40		
36		11.70	11.56	671.22	2197.34	2185.78	61	GRE VAM TOP	x	41		
37		11.69	11.55	682.77	2185.78	2174.23	62	GRE VAM TOP	x	42		
38		11.69	11.55	694.32	2174.23	2162.68	63	GRE VAM TOP	x	42		
39		11.69	11.55	705.87	2162.68	2151.13	64	GRE VAM TOP	x	43		
40		11.69	11.55	717.41	2151.13	2139.59	65	GRE VAM TOP	x	44		
41		11.68	11.54	728.95	2139.59	2128.05	66	GRE VAM TOP	x	45		
42		11.69	11.55	740.50	2128.05	2116.50	67	GRE VAM TOP	x	45		

43		11.70	11.56	752.06	2116.50	2104.94	68	GRE VAM TOP	x	46
44		11.60	11.46	763.52	2104.94	2093.48	69	GRE VAM TOP	x	47
45		11.69	11.55	775.06	2093.48	2081.94	70	GRE VAM TOP	x	48
46		11.27	11.13	786.19	2081.94	2070.81	71	GRE VAM TOP	x	48
48		11.69	11.55	797.74	2070.81	2059.26	73	GRE VAM TOP	x	49
49		11.70	11.56	809.30	2059.26	2047.70	74	GRE VAM TOP	x	50
50		11.44	11.30	820.60	2047.70	2036.40	75	GRE VAM TOP	x	51
51		11.68	11.54	832.13	2036.40	2024.87	76	GRE VAM TOP	x	51
52		11.65	11.51	843.64	2024.87	2013.36	77	GRE VAM TOP	x	52
53		11.22	11.08	854.72	2013.36	2002.28	78	GRE VAM TOP	x	53
54		11.13	10.99	865.71	2002.28	1991.29	79	GRE VAM TOP	x	54
55		11.34	11.20	876.91	1991.29	1980.09	80	GRE VAM TOP	x	54
56		11.69	11.55	888.45	1980.09	1968.55	81	GRE VAM TOP	x	55
57		11.69	11.55	900.00	1968.55	1957.00	82	GRE VAM TOP	x	56
58		11.33	11.19	911.19	1957.00	1945.81	83	GRE VAM TOP	x	56
59		11.65	11.51	922.70	1945.81	1934.30	84	GRE VAM TOP	x	57
60		11.70	11.56	934.26	1934.30	1922.74	85	GRE VAM TOP	x	58
61		11.69	11.55	945.80	1922.74	1911.20	86	GRE VAM TOP	x	59
62		11.70	11.56	957.36	1911.20	1899.64	87	GRE VAM TOP	x	60
63		11.52	11.38	968.74	1899.64	1888.26	88	GRE VAM TOP	x	60
65		11.71	11.57	980.31	1888.26	1876.69	90	GRE VAM TOP	x	61
66		11.70	11.56	991.87	1876.69	1865.13	91	GRE VAM TOP	x	62
67		11.69	11.55	1003.42	1865.13	1853.58	92	GRE VAM TOP	x	63
68		11.70	11.56	1014.97	1853.58	1842.03	93	GRE VAM TOP	x	63
69		11.70	11.56	1026.53	1842.03	1830.47	94	GRE VAM TOP	x	64
71		11.68	11.54	1038.07	1830.47	1818.93	96	GRE VAM TOP	x	65
72		11.69	11.55	1049.62	1818.93	1807.38	97	GRE VAM TOP	x	66
74		11.60	11.46	1061.08	1807.38	1795.92	99	GRE VAM TOP	x	66
75		11.69	11.55	1072.62	1795.92	1784.38	100	GRE VAM TOP	x	67
76		11.69	11.55	1084.17	1784.38	1772.83	101	GRE VAM TOP	x	68
77		11.26	11.12	1095.29	1772.83	1761.71	102	GRE VAM TOP	x	68
78		11.70	11.56	1106.85	1761.71	1750.15	103	GRE VAM TOP	x	69
80		11.53	11.39	1118.24	1750.15	1738.76	105	GRE VAM TOP	x	70
81		11.70	11.56	1129.79	1738.76	1727.21	106	GRE VAM TOP	x	71
82		11.69	11.55	1141.34	1727.21	1715.66	107	GRE VAM TOP	x	71
83		11.49	11.35	1152.69	1715.66	1704.31	108	GRE VAM TOP	x	72
84		11.70	11.56	1164.25	1704.31	1692.75	109	GRE VAM TOP	x	73
85		11.65	11.51	1175.76	1692.75	1681.24	110	GRE VAM TOP	x	74
86		11.42	11.28	1187.03	1681.24	1669.97	111	GRE VAM TOP	x	74
87		11.69	11.55	1198.58	1669.97	1658.42	112	GRE VAM TOP	x	75
88		11.68	11.54	1210.12	1658.42	1646.88	113	GRE VAM TOP	x	76
89		11.42	11.28	1221.40	1646.88	1635.60	114	GRE VAM TOP	x	77
90		11.52	11.38	1232.78	1635.60	1624.22	115	GRE VAM TOP	x	77
91		11.23	11.09	1243.86	1624.22	1613.14	116	GRE VAM TOP	x	78
92		11.69	11.55	1255.41	1613.14	1601.59	117	GRE VAM TOP	x	79
93		11.68	11.54	1266.95	1601.59	1590.05	118	GRE VAM TOP	x	80
94		11.70	11.56	1278.51	1590.05	1578.49	119	GRE VAM TOP	x	80
95		11.49	11.35	1289.86	1578.49	1567.14	120	GRE VAM TOP	x	81
96		11.69	11.55	1301.40	1567.14	1555.60	121	GRE VAM TOP	x	82
97		11.40	11.26	1312.66	1555.60	1544.34	122	GRE VAM TOP	x	83
98		11.69	11.55	1324.21	1544.34	1532.79	123	GRE VAM TOP	x	83
99		11.59	11.45	1335.66	1532.79	1521.34	124	GRE VAM TOP	x	84
100		11.69	11.55	1347.21	1521.34	1509.79	125	GRE VAM TOP	x	85
101		11.66	11.52	1358.72	1509.79	1498.28	126	GRE VAM TOP	x	86
102		11.65	11.51	1370.23	1498.28	1486.77	127	GRE VAM TOP	x	86
103		11.70	11.56	1381.79	1486.77	1475.21	128	GRE VAM TOP	x	87
104		11.43	11.29	1393.08	1475.21	1463.92	129	GRE VAM TOP	x	88
105		11.25	11.11	1404.19	1463.92	1452.81	130	GRE VAM TOP	x	89
106		11.37	11.23	1415.41	1452.81	1441.59	131	GRE VAM TOP	x	89
107		11.28	11.14	1426.55	1441.59	1430.45	132	GRE VAM TOP	x	90
108		11.51	11.37	1437.92	1430.45	1419.08	133	GRE VAM TOP	x	91
109		11.69	11.55	1449.47	1419.08	1407.53	134	GRE VAM TOP	x	92
110		11.52	11.38	1460.85	1407.53	1396.15	135	GRE VAM TOP	x	92
111		11.69	11.55	1472.39	1396.15	1384.61	136	GRE VAM TOP	x	93
112		11.65	11.51	1483.90	1384.61	1373.10	137	GRE VAM TOP	x	94
113		11.39	11.25	1495.15	1373.10	1361.85	138	GRE VAM TOP	x	95
114		11.68	11.54	1506.69	1361.85	1350.31	139	GRE VAM TOP	x	95
115		11.52	11.38	1518.07	1350.31	1338.93	140	GRE VAM TOP	x	96
116		11.61	11.47	1529.53	1338.93	1327.47	141	GRE VAM TOP	x	97
117		11.69	11.55	1541.08	1327.47	1315.92	142	GRE VAM TOP	x	98
118		11.69	11.55	1552.63	1315.92	1304.37	143	GRE VAM TOP	x	98
119		11.69	11.55	1564.18	1304.37	1292.82	144	GRE VAM TOP	x	99
120		11.39	11.25	1575.43	1292.82	1281.57	145	GRE VAM TOP	x	100
121		11.51	11.37	1586.80	1281.57	1270.20	146	GRE VAM TOP	x	100
122		11.26	11.12	1597.91	1270.20	1259.09	147	GRE VAM TOP	x	101
123		11.47	11.33	1609.24	1259.09	1247.76	148	GRE VAM TOP	x	102
124		11.68	11.54	1620.78	1247.76	1236.22	149	GRE VAM TOP	x	103
PIN X PIN JOINT F		11.00	11.00	1631.78	1236.22	1225.22				
slips to bottom		1.94	1.94	1633.72	1225.22	1223.28				
packer element to slips		1.12	1.12	1634.84	1223.28	1222.16				
mid slips to packer element		0.21	0.21	1635.05	1222.16	1221.95				
TOL to slips		3.70	3.70	1638.75	1221.95	1218.25				

Date: 12-04-2020			7" Liner Tally			Rig: VDD 370.2 VarioRig			Well: TNT-GT-01		
DSV:			7" 26# L80 VAGT RC			 					
Weight Lbs/ft	26.00	lbs/ft									
Casing ID inch	6.276	inch									
Cap	19.960	L/m									
Connection	VAGT RC	M/u Loss	0.000	m		Mud weight	1.08 sg				
M/u Torque Min	9495.00	ft.lbs	12873.000	Nm		Bouyancy fact.	0.86				
M/u Torque Opt	10550.00	ft.lbs	14304.000	Nm		Block weight	0 Klbs				
M/u Torque Max	12133.00	ft.lbs	16449.000	Nm		Rathole:	m				
90% Burst	450	bar				HUP CMT	2815.00 m				
90% Collapse	335	bar				Bttm Toolstr:	2503.66 m				
Tensile Strength	273	Ton				Capacity	19.96 l/m				
Joint no	Length m	Less m/u loss	Cum Length	Jt Btm m	Jt Top m	No.of joints	Remarks	Centraliser	Hookload T		
P & T Gauges	6.14	6.14	6.14	2503.66	2497.52						
Slick line wire length	1650.00	1650.00	1656.14	2497.52	847.52	1					
Rope socket	0.37	0.37	1656.51	847.52	847.15	2					
ESP Assy as per Oil Dynamics	29.99	29.99	1686.50	847.15	817.16	3	Top ESP @ 817,16				
Pup joint	1.64	1.64	1688.14	817.16	815.52	4					
1	11.75	11.75	1699.89	815.52	803.77	5					
2	11.65	11.65	1711.54	803.77	792.12	6					
3	11.64	11.64	1723.18	792.12	780.48	7					
4	11.80	11.80	1734.98	780.48	768.68	8					
5	11.48	11.48	1746.46	768.68	757.20	9					
6	11.82	11.82	1758.28	757.20	745.38	10					
7	11.81	11.81	1770.09	745.38	733.57	11					
8	11.66	11.66	1781.75	733.57	721.91	12					
9	11.81	11.81	1793.56	721.91	710.10	13					
10	11.09	11.09	1804.65	710.10	699.01	14					
11	11.58	11.58	1816.23	699.01	687.43	15					
12	11.77	11.77	1828.00	687.43	675.66	16					
13	11.70	11.70	1839.70	675.66	663.96	17					
14	11.82	11.82	1851.52	663.96	652.14	18					
15	11.62	11.62	1863.14	652.14	640.52	19					
16	11.69	11.69	1874.83	640.52	628.83	20					
17	11.37	11.37	1886.20	628.83	617.46	21					
18	11.57	11.57	1897.77	617.46	605.89	22					
19	11.80	11.80	1909.57	605.89	594.09	23					
20	11.80	11.80	1921.37	594.09	582.29	24					
21	11.81	11.81	1933.18	582.29	570.48	25					
22	11.81	11.81	1944.99	570.48	558.67	26					
23	11.79	11.79	1956.78	558.67	546.88	27					
24	11.81	11.81	1968.59	546.88	535.07	28					
25	11.74	11.74	1980.33	535.07	523.33	29					
26	11.33	11.33	1991.66	523.33	512.00	30					
27	11.81	11.81	2003.47	512.00	500.19	31					
28	11.51	11.51	2014.98	500.19	488.68	32					
29	11.80	11.80	2026.78	488.68	476.88	33					
30	11.81	11.81	2038.59	476.88	465.07	34					
31	11.81	11.81	2050.40	465.07	453.26	35					
32	11.81	11.81	2062.21	453.26	441.45	36					
33	11.67	11.67	2073.88	441.45	429.78	37					
34	11.83	11.83	2085.71	429.78	417.95	38					
35	11.82	11.82	2097.53	417.95	406.13	39					
36	11.64	11.64	2109.17	406.13	394.49	40					
37	11.48	11.48	2120.65	394.49	383.01	41					
38	11.81	11.81	2132.46	383.01	371.20	42					
39	11.63	11.63	2144.09	371.20	359.57	43					
40	11.27	11.27	2155.36	359.57	348.30	44					
41	11.81	11.81	2167.17	348.30	336.49	45					
42	11.81	11.81	2178.98	336.49	324.68	46					
43	11.68	11.68	2190.66	324.68	313.00	47					
44	11.59	11.59	2202.25	313.00	301.41	48					
45	11.81	11.81	2214.06	301.41	289.60	49					
46	11.50	11.50	2225.56	289.60	278.10	50					
47	11.07	11.07	2236.63	278.10	267.03	51					
48	11.66	11.66	2248.29	267.03	255.37	52					
49	11.56	11.56	2259.85	255.37	243.81	53					
50	11.78	11.78	2271.63	243.81	232.03	54					
51	11.81	11.81	2283.44	232.03	220.22	55					
52	11.82	11.82	2295.26	220.22	208.40	56					
53	11.80	11.80	2307.06	208.40	196.60	57					
54	11.80	11.80	2318.86	196.60	184.80	58					
55	11.40	11.40	2330.26	184.80	173.40	59					
56	11.81	11.81	2342.07	173.40	161.59	60					
57	11.60	11.60	2353.67	161.59	149.99	61					

58	11.66	11.66	2365.33	149.99	138.33	62			
59	11.63	11.63	2376.96	138.33	126.70	63			
60	11.82	11.82	2388.78	126.70	114.88	64			
61	11.52	11.52	2400.30	114.88	103.36	65			
62	11.48	11.48	2411.78	103.36	91.88	66			
63	11.81	11.81	2423.59	91.88	80.07	67			
64	11.74	11.74	2435.33	80.07	68.33	68			
65	11.48	11.48	2446.81	68.33	56.85	69			
67	11.74	11.74	2458.55	56.85	45.11	70			
68	11.81	11.81	2470.36	45.11	33.30	71			
69	11.66	11.66	2482.02	33.30	21.64	72			
70	11.62	11.62	2493.64	21.64	10.02	73			
Pup below hanger	1.12	1.12	2494.76	10.02	8.90	74			
Below HUP	0.12	0.12	2494.88	8.90	8.78	75	HNG HUP @8,78m		
Above HUP	0.32	0.31	2495.19	8.78	8.47	76			