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EL 4619

GAWLER CRATON – NORTHERN STUART SHELF

PACE 2020 DISCOVERY DRILLING 2012

**YEAR 7 DRILLING PARTNERSHIP NO. 1 –
DRILLING OF COWARD SPRINGS AREA
GRAVITY/MAGNETIC IOCG TARGETS**

PROJECT INTERIM REPORT AND FINAL REPORT

Submitted by
South Australia Ludi Mining Pty Ltd
2013

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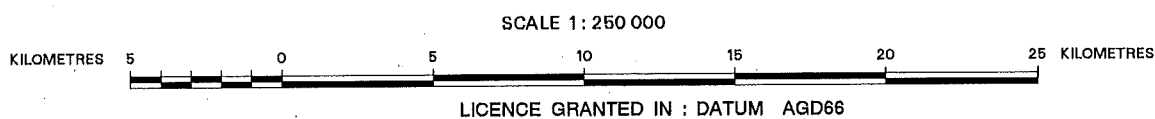
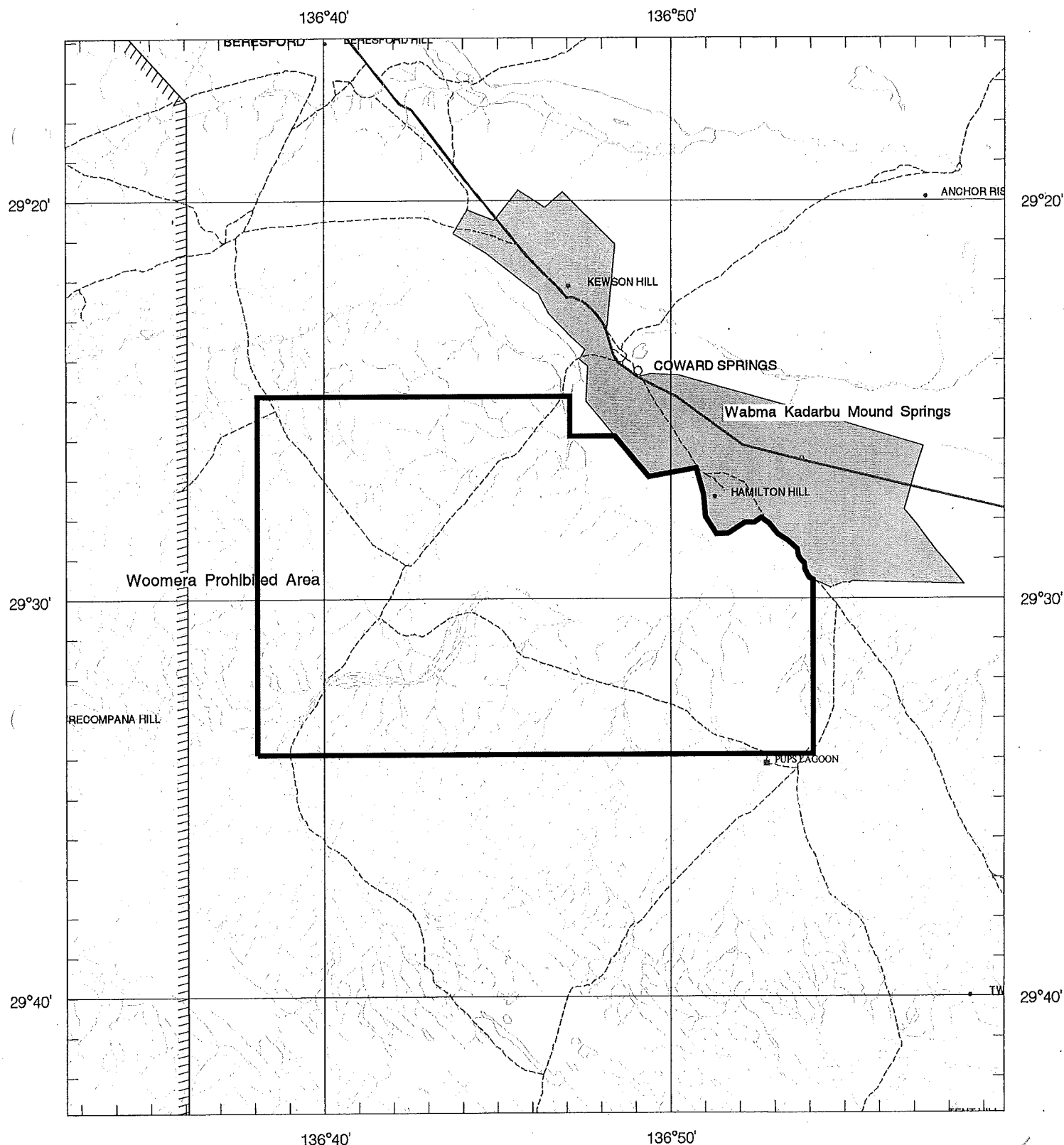
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Government of South Australia
Department of State Development

SCHEDULE A



APPLICANT : SOUTH AUSTRALIAN LUDI MINING PTY LTD

FILE REF : 68/10

TYPE : MINERAL ONLY

AREA : 380 km² (approx.)

1:250000 MAPSHEETS : CURDIMURKA

LOCALITY : POUND CREEK AREA - Approximately 120 km north of Roxby Downs

DATE GRANTED : 01-Dec-2010

DATE EXPIRED : 30-Nov-2011

EL NO : 4619

South Australia Ludi Mining Pty Ltd

Exploration Licence 4619 “Coward Springs”

Interim report on drilling operations, PACE Project DPY7-01

**D. Edgecombe
March 2013**

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SUMMARY

South Australia Ludi Mining Pty Ltd conducted deep drill testing of two targets, designated “A1” and “D1”, within EL 4619 “Coward Springs”, commencing in December 2012 and completed in February 2013. The holes were drilled to test geophysical anomalies interpreted as possible Olympic Dam analogue IOCG targets at estimated depths of 800 metres. The drilling was part funded under PACE Grant DPY7-01.

As the area was known to lie within the Great Artesian Basin artesian precollars were required at each site. An artesian water bore was constructed at site A1 and provided water for diamond drilling and the exploration camp. As no aquifer was present at site D1, water had to be carted from the bore at A1.

Diamond drilling was by conventional wireline method and achieved excellent core recoveries throughout. Core was logged on site and strapped to pallets for transport. It is anticipated that DMITRE will require that the core be delivered to the Adelaide Core Library Facility for permanent storage and reference.

At A1 drilling revealed a thin (74 metre) sequence of Mesozoic clays and sands (Bulldog Shale, Cadna Owie Formation and Algebuckina Sandstone) overlying flat-bedded Neoproterozoic sediments (Umberatana Group). The targeted Mesoproterozoic rocks were not intersected, despite drilling to 1,164 metres.

At D1 Neoproterozoic Umberatana Group sediments were encountered beneath just 27 metres of Mesozoic Bulldog Shale. Flat lying Umberatana Group red/brown and grey shales, sandstone and carbonates (limestone and dolomitic limestone) extended from 27 metres to end of hole at 1,167 metres. Once again the targeted Mesoproterozoic was not reached.

1. INTRODUCTION

South Australia Ludi Mining Pty Ltd (“SALM”) acquired Exploration Licence 4619 “Coward Springs” to explore for large Mesoproterozoic copper/gold/uranium deposits analogous to Olympic Dam, which is located approximately 120 kilometres to the south. No previous exploration drilling for deposits of this type had been undertaken within the EL area, with the nearest deep drillhole located some 20 kilometres south of the southwest corner of the tenement. As geophysical data from government and industry sources suggested that potential for major IOCG deposits existed, SALM undertook a detailed review of that data, followed up with gravity and IP surveying, and identified two high priority exploration targets, designated “A1” and “D1” (see Figure 1).

During 2012 SALM obtained the necessary statutory, Aboriginal and landholder approvals and commenced drilling in early December 2012. The drilling was part funded under PACE Grant DPY7-01. This report summarises both operational and technical (geological) aspects of the drilling. However, at the time of compilation assays had not been received and rehabilitation of drill sites and access routes remained to be completed.

2. GEOLOGICAL SETTING

Exploration Licence 4619 is located approximately 120 kilometres north of Olympic Dam, near the interpreted northern edge of the Stuart Shelf. Precambrian basement geology in the area is very poorly known, with the nearest outcrops some 60 kilometres to the east. The nearest basement penetrating drillhole is located 20 kilometres south of the southwestern corner of the tenement. This hole (Newmont SR 17/2) penetrated 1,460 metres of Neoproterozoic sediments beneath 40 metres of Mesozoic Bulldog Shale and did not reach the Mesoproterozoic target.

Geophysical modelling at both targets A1 and D1 suggested depths to Mesoproterozoic basement of 800 metres and that cover was likely to be dominated by Neoproterozoic sediments similar to those in SR 17/2 with thin surficial Mesozoic and Cainozoic.

3. DRILLING AND LOGGING OPERATIONS

3.1 Precollars and water bores

Thomson Drilling Pty Ltd were engaged to construct precollars into basement at A1 and D1, along with a water bore targeting Algebuckina Sandstone at each site. Drill rig and crew arrived at site on 29/11/2012 and established a camp at the “A1 alternative water bore” site (see Figure 1), as access to A1, the planned camp site, was not accessible following a substantial rain event.

Drilling of the A1 water bore (“A1WB”) commenced on 1/12/2012 and encountered strong flow (20 litres/second) and pressure (280 kPa) from Algebuckina Sandstone at relatively shallow depth (68-74 metres). Control presented some difficulties and a mud weight of ~1.6 was required to stem the flow. The high mud weight exceeded the SG of PVC casing, necessitating the use of steel casing above the PVC screen. The casing was successfully placed, packed and cemented on 4/12/2012 and drilling of the A1 precollar (named CS-001) commenced the same day. The precollar was completed at 90 metres in Neoproterozoic shale, since ascribed to Angepena Formation/Willochra Subgroup (Umberatana Group). Steel casing (100mm) was pressure cemented in the hole to 90 metres in preparation for diamond drilling on 5/12/2012. Collar data for drillhole A1WB are included in Appendix 1 and lithological logging in Appendix 3.

The drill rig was shifted to site D1 on 6/12/2012 and intersected Neoproterozoic basement shale and limestone at 27 metres on 7/12/2012. As no aquifer sands were present the hole was cased with

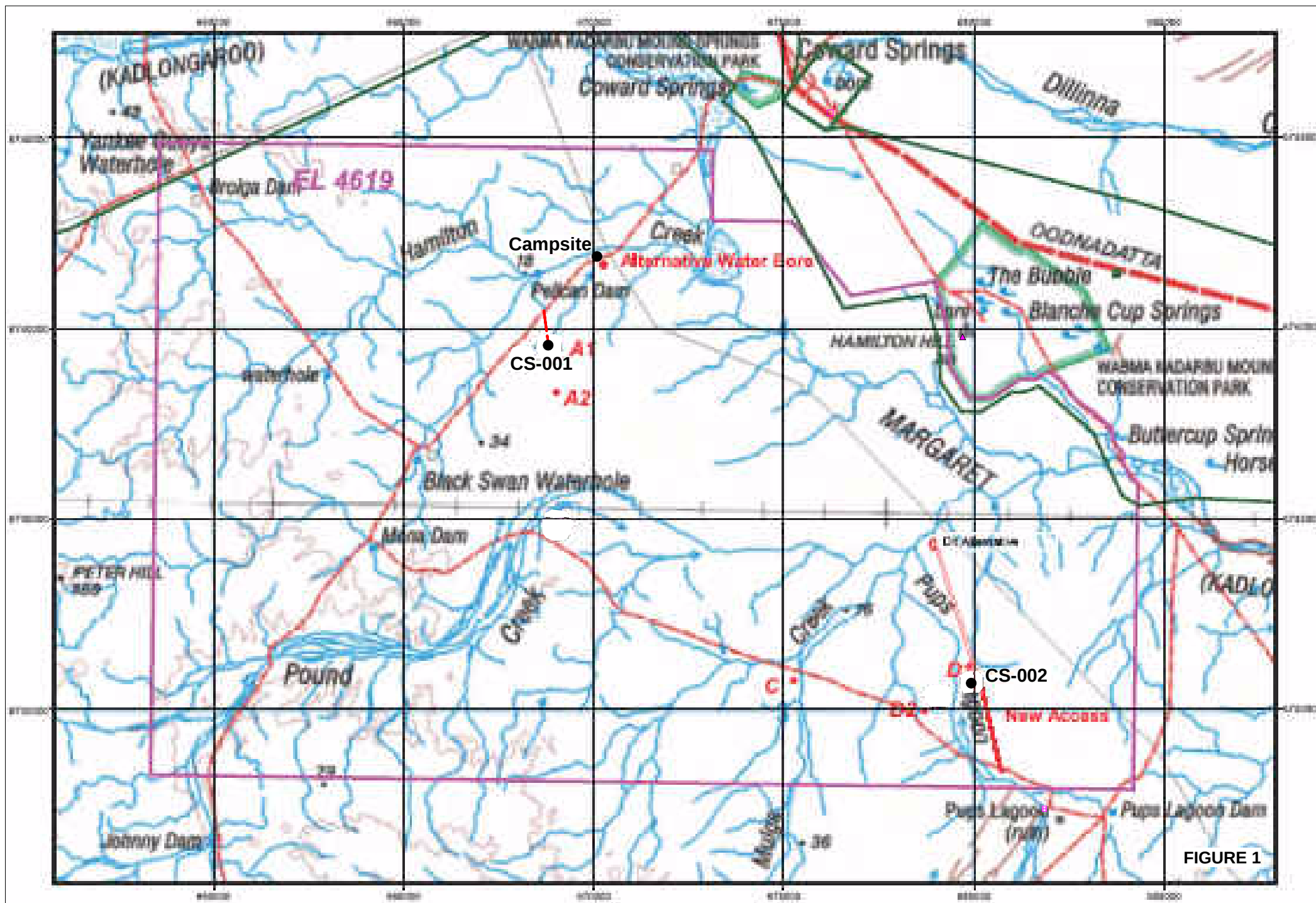


FIGURE 1

100mm steel casing to 42 metres as the precollar for hole CS-002, then pressure cemented as a precaution against possible flows from basement shear zones connected laterally to the artesian aquifers.

3.2 Diamond drilling

Techdrill Services Pty Ltd conducted diamond drilling using the Thompson prepared precollars and water bore at A1. Drill rig (Sandvik DE 811) and crew arrived on site 14/12/2012 but could not move onto first site (A1, drillhole CS-001) until 19/12/2012 following a major rain event on the day of arrival.

Operations commenced on a single (day) shift basis on 20/12/2012, with an additional (night) shift from 5/1/2013. Techdrill based their crews in William Creek, some 75 kilometres from Coward Springs along the Oodnadatta Track. This necessitated travel times of approximately 2 hours each shift to site A1 (hole CS-001) and 3.5 hours per shift to site D1 (hole CS-002).

Drilling was by conventional wireline coring utilising in ground sumps previously excavated by backhoe. Core recovery was excellent throughout and no significant problems were encountered with shear zones, as the latter were rare and narrow when present. Hole CS-001 was drilled HQ3 to 720 metres, then NQ3 to end of hole at 1,164 metres. Hole CS-002 was drilled HQ3 to 719.5 metres, then NQ3 to 1,167 metres (EOH), with completion on 10/2/2013. Production on a “normal” shift averaged 36 to 42 metres, with a peak of 54 metres achieved on several shifts. Reagent usage was acceptable. Water consumption was never an issue at CS-001, with the A1 water bore on site. However at CS-002, water loss from the sumps, coupled with travel time to the A1 water bore, did cause some significant delays.

Core was logged on site and strapped to pallets for transport. It is anticipated that DMITRE will require that the core be delivered to the Adelaide Core Library Facility for permanent storage and reference. Drillhole collar information is included as Appendix 1, surveys in Appendix 2 and geological logs as Appendix 3.

On completion the tops of both exploration holes were cemented, with a plug placed approximately 30 metres below the precollar, cemented back to surface. As there was no interest in retaining the water bore for stock use it was cemented over its full length.

3.3 Wireline logging

Drillholes were geophysically logged by Borehole-Wireline Pty Ltd using a Toyota Landcruiser mounted logging unit. Logging required two runs, one for the NQ section at bottom of hole (below 720 metres), then the second after pulling HQ rods to allow logging of the top section. Logging time for each section was approximately 11-12 hours. As the logging unit only had 1,046 useable metres of cable, the bottom of the holes below this depth could not be logged.

Holes were logged for gamma ray, short and deep spaced induction, short and deep focused resistivity, magnetic susceptibility and drift (azimuth and inclination) responses. Data are excellent and formation boundaries are distinctive. Wireline logging data will be included in the Final Drilling Project Report.

4. DRILLHOLE GEOLOGY

4.1 Hole CS-001

Hole CS-001 intersected Neoproterozoic sediments from the base of the Mesozoic (Bulldog Shale, Cadna Owie Formation and Algebuckina Sandstone) to end of hole. At 1,164 metres the hole was in a sequence of interbedded siltstone, fine sandstone and diamictite, believed to be Wilyerpa Formation (Umberatana Group). Formation names have been ascribed to the major units but are tentative and subject to revision. The hole did not reach the top of the target Mesoproterozoic.

Summary geology:

0-1: Cainozoic sand and soil, abundant silcrete lag.

1-54: Bulldog Shale, massive clay shale.

54-67.5: Cadna Owie Formation, silty and clayey quartz sands.

67.5-73.5: Algebuckina Sandstone, coarse-very coarse pebbly quartz sands.

73.5-388.9: Angepena Formation, brown/red and grey shale, siltstone, minor limestone and dolomite. Small scale cross bedding, slumps, scours.

388.9-391.6: ?Etina Formation, shale and diamictite, minor nodular limestone.

391.6-440.27: Brighton Formation, red/brown limestone and shale, minor sandstone.

440.27-1,000.60: Tapley Hill Formation, laminated grey shale and limestone, sandy, some intraclastic and/or oolitic, dolomitic in part. Scours, small scale cross beds, slumps.

1,000.60-1,164.20: Wilyerpa Formation, brown and grey siltstone and fine sandstone, diamictite.

A more detailed drillhole log is included in Appendix 3.

4.2 Hole CS-002

Hole CS-002 intersected Bulldog Shale beneath a thin veneer of Cainozoic. Neoproterozoic basement was intersected from 27 metres, with Cadna Owie Formation and Algebuckina Sandstone both absent, suggesting a basement high at this location.

Summary geology:

0-0.5: Cainozoic sand/silt soil.

0.5-27: Bulldog Shale, massive clay/shale.

27-712.96: Angepena Formation, brown and grey shale and siltstone, minor quartz/lithic sandstone (commonly glauconitic) and limestone/dolomite, scours, small cross beds, ripples, mud cracks.

712.96-714.68: ?Etina Formation, shale with limestone nodules.

714.68-723.00: Brighton Formation, pale brown shale and limestone.

723.00-792.66: Yankaninna Siltstone (Tapley Hill Formation), red/brown siltstone and shale, limy in part, quartz/lithic sandstone at top, subordinate pale grey stromatolitic and sandy limestones (possibly equivalents of Wockerawirra Dolomite and/or Woocalla Dolomite).

792.66-832.80: Yankaninna/Tapley Hill Formation transition, brown and lesser grey laminated calcareous shale and siltstone, limestone.

832.80-1,167.20: Tapley Hill Formation, interlaminated grey calcareous shale and limestone, occasional thicker stromatolitic and sandy limestones, minor brown shale and siltstone.

A more detailed drillhole log is included in Appendix 3.

4.3 Mineralisation

In both holes rare small aggregates, fine veins and single crystals of fine pyrite and chalcopyrite are present, most commonly in limestone or greyish reduced sandstones.

In CS-002 a sinuous fine (1-2mm) sulphide vein of chalcopyrite, bornite and pyrite is present between 818.07 and 818.10 metres in limestone ascribed to the transition between Yankaninna Siltstone and Tapley Hill Formations. Core through the limestone interval (815-823 metres) has been cut and half core despatched for multi-element analysis, however results are not yet available.

5. CONCLUSIONS

At both sites A1 and D1 drilling has progressed well beyond the interpreted target tops (800 metres) without reaching the target Mesoproterozoic stratigraphy. Drillhole and geophysical data are being reviewed to establish if any Mesoproterozoic IOCG targets remain at acceptable depths.

6. DRILLING COSTS

Direct drilling costs (excluding GST) for the project are as follows:

Precollar and water bore drilling (Thompson Drilling):	132,109.50
Diamond coring (Techdrill), 16/12/2012-31/12/2012:	84 298.96
Diamond coring (Techdrill), 1/1/2013-15/1/2013:	137,577.67
Diamond coring (Techdrill), 16/1/2013-31/1/2013:	118,871.89
Diamond coring (Techdrill), 1/2/2013-15/2/2013:	145,278.69
TOTAL:	618,136.71

Copies of drillers' invoices are included as Appendix 4.

APPENDIX 1

Drillhole collar information

EL 4619 - Coward Springs - Drillhole collar information

Hole_ID	MGA94_E metres	MGA94_N metres	Zone	RL-MAMSL metres	Total depth metres	Azimuth_M degrees	Inclination degrees	Start Date	End Date	Notes
A1WB	668826	6739541	53	32	78	NA	-90	1/12/2012	4/12/2012	Water flow 20 litres/second at 280 kPa
CS-001	668825	6739512	53	32	1,164.20	NA	-90	4/12/2012	14/01/2013	Rotary mud precollar 0-90 metres
CS-002	679967	6730647	53	19	1,167.20	NA	-89	6/12/2012	10/02/2013	Rotary mud precollar 0-42 metres

APPENDIX 2

Downhole surveys

EL 4619 "Coward Springs" interim report on drilling operations, PACE Project DPY7-01

EL 4619 - Coward Springs - Downhole surveys				
Hole_ID	Depth metres	Inclination degrees	Azimuth degrees	Comments
A1WB	0	-90	NA	setup,not surveyed
CS-001	0	-90	NA	setup,not surveyed
CS-001	130	-86.2	226.2	
CS-001	168	-86.7	225.4	
CS-001	200	-86.3	226.4	
CS-001	300	-86.8	226.7	
CS-001	396.4	-86.9	226.7	
CS-001	498.4	-87.1	228.6	
CS-001	606.4	-87.1	205	
CS-001	702.4	-87.3	224.7	
CS-001	800.2	-87.1	222.8	
CS-001	900.2	-87.1	222.7	
CS-001	1000.2	-87.2	220.2	
CS-001	1104.2	-87.3	221.1	
CS-001	1164	-87.3	220	
CS-002	0	NA	-90	setup,not surveyed
CS-002	102	-88.7	226.5	
CS-002	220	-89.1	237.5	
CS-002	320			camera failed-unresponsive
CS-002	370	-88.6	213.6	
CS-002	400			camera failed-unresponsive
CS-002	430	-88.9	213.9	
CS-002	500	-88.8	214.8	
CS-002	594.4	-88.8	214.7	
CS-002	702.4	-88.4	201.8	
CS-002	804.2	-88.5	193.7	
CS-002	900	-88.4	215.1	
CS-002	1000			camera failed-unresponsive
CS-002	1100			camera failed-unresponsive

APPENDIX 3

Drillhole geology

EL 4619 - Coward Springs - Drillhole geology

Hole_ID	From metres	To metres	Hue	Colour 1	Colour Join	Colour 2	Weathering	Lithology 1	Lithology join	Lithology 2	Inferred unit
A1WB	0	1	mid	red	-	brown	very high	soil	+	lag	Cainozoic
A1WB	1	7	pale/mid	khakhi	-	brown	high	clay	-	shale	Bulldog
A1WB	7	23	mid/dark	grey			slight	clay	-	shale	Bulldog
A1WB	23	35	dark	grey			fresh	clay/shale	+	(silt)	Bulldog
A1WB	35	55	dark/mid	grey			fresh	silt	+	clay/shale	Bulldog
A1WB	55	68	mid	grey			fresh	sand	+	silt	Cadna-owie
A1WB	68	74	pale	grey	-	white	fresh	sand			Algebuckina
A1WB	74	78	mid	grey			high	saprolitic clay	-	shale	Neoproterozoic
CS-001	0	1	mid	brown	-	(red)	very high	soil	+	lag	Cainozoic
CS-001	1	8	mid	khakhi	-	brown	high	clay	-	shale	Bulldog
CS-001	8	20	dark	grey			slight	clay/shale	+	silt	Bulldog
CS-001	20	34	dark	grey			fresh	clay/shale	+	silt	Bulldog
CS-001	34	48	dark/mid	grey			fresh	silt	+	clay/shale	Bulldog
CS-001	48	54	dark	grey			fresh	shale	-	clay	Bulldog
CS-001	54	67.5	pale/mid	grey			fresh	sand	+	silt	Cadna owie
CS-001	67.5	73.5	pale	grey	-	white	fresh	sand			Algebuckina
CS-001	73.5	82	pale	grey			strong	shale	+	saprolite	Willochra/Angepena
CS-001	82	86	mid	grey	+	grey	weak	shale			Willochra/Angepena
CS-001	86	178.8	mid	grey	+	red/brown	fresh	shale	+	carbonate	Willochra/Angepena
CS-001	178.8	179.4	mid	grey	+	red/brown	fresh	shear zone	-	shale	Willochra/Angepena
CS-001	179.4	268	mid	grey	+	red/brown	fresh	shale	+	carbonate	Willochra/Angepena
CS-001	268	290.83	mid	red/brown	+	(grey)	fresh	shale	+	(carbonate)	Willochra/Angepena
CS-001	290.83	290.92	mid	grey			fresh	shear			Willochra/Angepena
CS-001	290.92	298.7	mid	red/brown	+	(grey)	fresh	shale	+	(carbonate)	Willochra/Angepena
CS-001	298.7	388.9	mid	red/brown	+	(grey)	fresh	shale	+	siltstone	Willochra/Angepena
CS-001	339.85	340.19	mid	grey	-	brown	fresh	limestone			Willochra/Angepena
CS-001	388.9	391.6	mid/dark	red/brown			fresh	shale	-	diamictite	Etina?

EL 4619 - Coward Springs - Drillhole geology

Hole_ID	From metres	To metres	Lithology_comments
A1WB	0	1	aeolian sand/silt soil,abundant silcrete lag
A1WB	1	7	massive clay after shale,abundant gypsum at top (1-3m)
A1WB	7	23	massive dark grey shale,locally silty,flecks fine dark ?carbonaceous matter
A1WB	23	35	massive dark grey shale,minor local silt
A1WB	35	55	massive grey silt and lesser clay/shale
A1WB	55	68	fine grained silty quartz/(lithic) sand
A1WB	68	74	clean coarse to very coarse quartz sands,strong water flow (240 kpa)
A1WB	74	78	massive grey clay/shale,slight bluish tinge,very finely micaceous
CS-001	0	1	aeolian sand/silt soil,abundant silcrete lag
CS-001	1	8	massive limonitic clay ex shale protolith,gypsum at top
CS-001	8	20	massive dark grey shale,grades to silt
CS-001	20	34	massive dark grey shale,grades to silt,fresher
CS-001	34	48	massive clayey silts,subordinate/minor interbedded clay/shale
CS-001	48	54	massive dark grey clay/shale
CS-001	54	67.5	massive fine silty to clayey quartz/(lithic) sands,local minor silica cementation - "caprock"
CS-001	67.5	73.5	pebbly coarse to granule quartz sand,moderately sorted,subangular to subround
CS-001	73.5	82	saprolitic clays after pale grey massive shale,finely micaceous,scattered minor to common haematite reddening,probably Neoproterozoic
CS-001	82	86	mottled grey and brown cleaved finely micaceous shale,harder/fresher
CS-001	86	178.8	finely laminated grey and reddish brown shale,minor to subordinate pale grey fine sandy limestone and dolomite-more common towards top,local small scale scours and cross beds,local minor slumping 158-160m,occasional thin calcite vein
CS-001	178.8	179.4	fracture/shear zone in sediments as above
CS-001	179.4	268	finely laminated grey and reddish brown shale,minor to common pale grey fine sandy limestone and dolomite,local small scale scours and cross beds
CS-001	268	290.83	finely laminated reddish brown and (grey) shale,minor to (subordinate) interbedded pale grey fine sandy limestone/dolomite,local minor scours and small scale cross lamination
CS-001	290.83	290.92	shear zone in sediments as above
CS-001	290.92	298.7	finely laminated reddish brown and (grey) shale,minor to (subordinate) interbedded pale grey fine sandy limestone/dolomite,bedding steepened and local small scale faults,minor fine calcite veining
CS-001	298.7	388.9	finely laminated reddish brown and (grey) shale and (siltstone),minor to subordinate grey to brown fine limestone-more common at top-very minor at base ,small cross beds & slumps locally,trace fine calcite veins-some vuggy,dips flatten rapidly
CS-001	339.85	340.19	thin massive fine grained brownish grey sandy limestone
CS-001	388.9	391.6	red/brown shales with scattered rounded matrix supported limestone and quartzite dropstone pebbles,minor nodular to thin bedded limestone

EL 4619 - Coward Springs - Drillhole geology

Hole_ID	From metres	To metres	Sulphide_comment
A1WB	0	1	
A1WB	1	7	
A1WB	7	23	
A1WB	23	35	trace pyrite as fine crystal aggregates
A1WB	35	55	
A1WB	55	68	
A1WB	68	74	minor pyrite as fine crystal aggregates
A1WB	74	78	
CS-001	0	1	
CS-001	1	8	
CS-001	8	20	
CS-001	20	34	
CS-001	34	48	
CS-001	48	54	
CS-001	54	67.5	
CS-001	67.5	73.5	scattered finely crystalline pyrite aggregates
CS-001	73.5	82	
CS-001	82	86	
CS-001	86	178.8	trace fine pyrite on fractures
CS-001	178.8	179.4	
CS-001	179.4	268	trace fine pyrite on fractures
CS-001	268	290.83	rare fine pyrite on fractures
CS-001	290.83	290.92	
CS-001	290.92	298.7	
CS-001	298.7	388.9	
CS-001	339.85	340.19	
CS-001	388.9	391.6	

EL 4619 - Coward Springs - Drillhole geology

Hole_ID	From metres	To metres	Hue	Colour 1	Colour Join	Colour 2	Weathering	Lithology 1	Lithology join	Lithology 2	Inferred unit
CS-001	391.6	392.6	mid	red/brown			fresh	shale	+	limestone	Brighton transition
CS-001	392.6	400.19	pale	brown			fresh	limestone	+	(shale)	Brighton
CS-001	400.19	403.95	dark	brown			fresh	limestone			Brighton
CS-001	403.95	411.24	mid	brown			fresh	limestone	-	sandstone	Brighton
CS-001	411.24	411.6	dark	brown			fresh	shale	+	calc sandstone	Brighton
CS-001	411.6	420.37	mid/dark	brown			fresh	limestone	+	shale	Brighton
CS-001	420.37	422.58	dark	brown			fresh	calc shale	+	(limestone)	Brighton
CS-001	422.58	426.6	dark	brown			fresh	shale			Brighton
CS-001	426.6	428.88	pale	grey			fresh	limestone			Brighton
CS-001	428.88	432.65	mid	brown	-	grey	fresh	calc shale	+	(limestone)	Brighton
CS-001	432.65	439.06	mid	grey	-	(brown)	fresh	calc shale			Brighton
CS-001	439.06	440.23	pale	grey			fresh	limestone			Brighton
CS-001	440.23	440.27	pale/mid	grey			fresh	sandstone			Brighton
CS-001	440.27	452.39	mid/pale	grey	-	(brown)	fresh	calc shale	+	limestone	Tapley Hill
CS-001	452.39	465.76	dark/mid	grey		(brown)	fresh	calc shale			Tapley Hill
CS-001	465.76	473.89	pale	grey			fresh	limestone			Tapley Hill
CS-001	473.89	531.37	mid/dark	grey			fresh	calc shale			Tapley Hill
CS-001	531.37	531.46	pale	grey			fresh	limestone			Tapley Hill
CS-001	531.46	531.57	mid/dark	grey			fresh	calc shale			Tapley Hill
CS-001	531.57	548.07	pale	grey			fresh	limestone			Tapley Hill
CS-001	548.07	564.91	mid/dark	grey			fresh	calc shale			Tapley Hill

EL 4619 - Coward Springs - Drillhole geology

Hole_ID	From metres	To metres	Lithology_comments
CS-001	391.6	392.6	transitional zone between thin bedded pale limestone and darker red/brown shale
CS-001	392.6	400.19	laminatd to thin bedded pale brown limestone,probably dolomitic,subordinate red/brown shale laminae-more common above 397.5m,small scale basal scours common,individual beds coarsen upwards
CS-001	400.19	403.95	massive to weakly banded (?algal) dark brown fine grained limestone,clayey in part,fine calcite crystal casts after ?evaporites-common below 400.6m,minor clastic grains locally,irregular white ?phosphate nodules below 401.85m
CS-001	403.95	411.24	medium-coarse grained carbonate cemented quartz/lithic calc-sandstone,locally to granule sized,ranges from matrix (silty carbonate) to (grain)support,interbedded irregular patches massive limestone as above (with white ?phosphate nodules)
CS-001	411.24	411.6	massive to banded/laminated dark brown shale,laminae fine calcareous quartz/lithic sand scattered throughout,irregular white ?phosphate nodules locally
CS-001	411.6	420.37	banded to laminated brown limy shale and co-dominant fine sandy limestone/calcareenite,bedding sub-parallel to wavy and commonly lenticular,minor fine calcite veining-most S0 parallel
CS-001	420.37	422.58	massive brown shale-commonly limy/calcareous,minor interbedded thin pale limestone laminae
CS-001	422.58	426.6	darker brown shale,rare thin limy zones,trace fine S0 parallel calcite veins
CS-001	426.6	428.88	pale grey irregularly laminated limestone,probably stromatolitic/algal lamination,some darker laminae stylolitic
CS-001	428.88	432.65	interlaminated calcareous shale and limestone (probably a calc-sandstone),lamination mainly sub-parallel but some irregular surfaces and some lenticular
CS-001	432.65	439.06	massive to laminated calcareous shale (lime mudstone/calclutite),lamination parallel
CS-001	439.06	440.23	pale grey irregularly laminated limestone,probably stromatolitic/algal lamination,some stylolitic laminae,cut by discordant 15mm clcite vein
CS-001	440.23	440.27	medium grained grain supported carbonate cemented quartz/lithic calc-sandstone
CS-001	440.27	452.39	interlaminated calcareous shale and limestone (probably a calc-sandstone),lamination sub-parallel but commonly slightly wavy,occasional thin calcite vein,probably top of Tapley Hill Formation
CS-001	452.39	465.76	laminated to massive calcareous shale,top transitional,minor green reduction spotting locally,occasional minor slumped zones,minor local discordant calcite veining
CS-001	465.76	473.89	pale grey irregularly laminated limestone-stromatolitic/algal at least in part,local quartz lithic calc sands,upper and lower contacts both rapid transition
CS-001	473.89	531.37	massive laminated calcareous (?dolomitic) shale,occasional minor slumped zones,minor greenish tinged zones below 479.75m,local brecciation and calcite veining 486.4-488.43m,507.20-507.74m
CS-001	531.37	531.46	pale grey sandy oolitic limestone/calcareenite,carbonate overprinting medium grained quartz and lithic sand grains
CS-001	531.46	531.57	laminated calcareous (?dolomitic) shale
CS-001	531.57	548.07	pale grey limestone,includes stromatolitic (dominant below 532.75m) and oolitic (as for 531.37-531.46m) variants,occasional minor darker irregular clayey zones-more common below 534.5m,basal contact sharp/erosional
CS-001	548.07	564.91	laminated calcareous (?dolomitic) shale,occasional thin discordant calcite vein

EL 4619 - Coward Springs - Drillhole geology

Hole_ID	From metres	To metres	Sulphide_comment
CS-001	391.6	392.6	
CS-001	392.6	400.19	
CS-001	400.19	403.95	
CS-001	403.95	411.24	
CS-001	411.24	411.6	
CS-001	411.6	420.37	
CS-001	420.37	422.58	
CS-001	422.58	426.6	
CS-001	426.6	428.88	
CS-001	428.88	432.65	
CS-001	432.65	439.06	
CS-001	439.06	440.23	
CS-001	440.23	440.27	
CS-001	440.27	452.39	
CS-001	452.39	465.76	
CS-001	465.76	473.89	trace bornite and lesser chalcopyrite/pyrite as small crystal aggregates 467.82-468.03m
CS-001	473.89	531.37	
CS-001	531.37	531.46	
CS-001	531.46	531.57	
CS-001	531.57	548.07	
CS-001	548.07	564.91	

EL 4619 - Coward Springs - Drillhole geology

Hole_ID	From metres	To metres	Hue	Colour 1	Colour Join	Colour 2	Weathering	Lithology 1	Lithology join	Lithology 2	Inferred unit
CS-001	564.91	730.61	pale	grey			fresh	limestone	+	calc shale	Tapley Hill
CS-001	730.61	730.98	pale	grey			fresh	limestone	+	breccia	Tapley Hill
CS-001	730.98	735.4	pale	grey			fresh	limestone	+	calc shale	Tapley Hill
CS-001	735.4	742.3	pale	grey			fresh	limestone	+	breccia	Tapley Hill
CS-001	742.3	762.21	pale	grey			fresh	limestone	+	calc shale	Tapley Hill
CS-001	762.21	806.97	mid/pale	grey			fresh	calc shale	+	limestone	Tapley Hill
CS-001	806.97	834.38	mid/dark	grey			fresh	shale	+	(limestone)	Tapley Hill
CS-001	834.38	992.87	pale	grey			fresh	limestone	+	calc shale	Tapley Hill
CS-001	992.87	995.6	mid	grey			fresh	calc shale	+	(limestone)	Tapley Hill
CS-001	995.6	1000.6	pale	grey			fresh	limestone	+	(calc shale)	Tapley Hill
CS-001	1000.6	1013	mid	brown			fresh	siltstone			Wilyerpa
CS-001	1013	1051.33	mid	grey			fresh	siltstone			Wilyerpa
CS-001	1051.33	1154.36	mid	grey			fresh	siltstone	+	sandstone	Wilyerpa
CS-001	1154.36	1164.2	mid	grey			fresh	siltstone	+	diamictite	Wilyerpa
CS-002	0	0.5	mid	brown			very high	soil	+	lag	Cainozoic
CS-002	0.5	4	mid	khakhi	-	brown	high	clay/shale	+	silt	Bulldog
CS-002	4	7	dark	grey			slight	clay/shale	+	silt	Bulldog
CS-002	7	13	dark	grey			fresh	clay/shale	+	silt	Bulldog
CS-002	13	14	mid	grey			fresh	limestone			Bulldog
CS-002	14	27	dark	grey			fresh	clay/shale	+	silt	Bulldog
CS-002	27	29	mid	grey	-	(buff)	fresh	limestone			Willochra/Angepena
CS-002	29	148.95	mid	grey	+	brown	fresh	shale	+	(sandstone)	Willochra/Angepena
CS-002	148.95	189.79	mid	brown	+	(grey)	fresh	shale	+	(sandstone)	Willochra/Angepena
CS-002	189.79	365.46	mid	brown/red	+	(grey)	fresh	shale	+	(sandstone)	Willochra/Angepena

EL 4619 - Coward Springs - Drillhole geology

Hole_ID	From metres	To metres	Lithology_comments
CS-001	564.91	730.61	pale grey laminated to bedded sandy limestone/calcarene, intraclastic and oolitic in places, local small scale cross bedding/wavy bedding, scours, some beds distinctly graded, interlaminated dark grey calc shales-locally dominant
CS-001	730.61	730.98	angular breccia zone in limestone/shale as above, some associated calcite veining
CS-001	730.98	735.4	pale grey laminated to thin bedded sandy limestone as above breccia zone, subordinate interlaminated darker grey calc shale
CS-001	735.4	742.3	limestone/shale as above with subordinate coarse angular breccia zones locally, some associated calcite veining
CS-001	742.3	762.21	pale grey laminated to thin bedded sandy limestone, subordinate interlaminated darker grey calc shale, scours, small scale cross beds
CS-001	762.21	806.97	laminated calc shale and subordinate pale grey sandy limestone
CS-001	806.97	834.38	laminated grey shales-limy/dolomitic in part, minor interlaminated to thin bedded sandy limestone/calcarene
CS-001	834.38	992.87	pale grey laminated to thin bedded sandy limestone, subordinate interlaminated darker grey calc shale, scours, small scale cross beds, slumped beds-very common towards base
CS-001	992.87	995.6	laminated grey shales-limy/dolomitic, minor-subordinate interlaminated to thin bedded pale grey sandy limestone/calcarene
CS-001	995.6	1000.6	pale grey laminated to thin bedded sandy limestone, thicker bedded in places, subordinate interlaminated darker grey calc shale, scours, slumps
CS-001	1000.6	1013	massive brownish siltstone, calcareous at top-possibly dolomitic, minor local greenish grey reduced patches
CS-001	1013	1051.33	massive grey quartz rich siltstone, similar to above but grey/reduced, top contact diffuse
CS-001	1051.33	1154.36	grey quartz rich siltstone, grades to very fine quartz sandstone-locally with reddish tinge, vaguely bedded to massive, becomes more laminated/sandy at depth
CS-001	1154.36	1164.2	laminated quartz rich siltstone to very fine sandstone, subordinate interbedded coarse matrix and clast supported pebble to cobble diamictite, clasts sediments include shale, siltstone, fine sandstone and coarser red haematitic sandstone, subround to angular
CS-002	0	0.5	sand/silt soil, scattered silcrete lag
CS-002	0.5	4	massive clay/shale, gypsiferous at top, limonite stained
CS-002	4	7	massive clay/shale and silt, darker/fresher
CS-002	7	13	massive clay/shale and silt, fresh
CS-002	13	14	massive hard grey limestone
CS-002	14	27	massive clay/shale and silt, fresh
CS-002	27	29	massive hard grey limestone, patchy coarse crystalline calcite veining
CS-002	29	148.95	shale and siltstone, minor-subordinate interbedded fine-medium quartz/(lithic) sandstone-slightly limy/?dolomitic at top, commonly glauconitic, some intraclastic, scours, small cross beds, ripples, sinuous sand filled mudcracks
CS-002	148.95	189.79	similar to above but red/brown colours dominant-more oxidised, sands coarser and less glauconite, top is transitional, scours, slumps, small cross beds
CS-002	189.79	365.46	massive to laminated red/brown (minor-subordinate grey) shale and siltstone, minor fine-medium-coarse reddish quartz/(lithic)sands-more common towards base-some glauconitic, top is transitional-not well defined, scours, common cross bedding, mud cracks at top

EL 4619 - Coward Springs - Drillhole geology

Hole_ID	From metres	To metres	Sulphide_comment
CS-001	564.91	730.61	rare trace chalcopryrite as fine crystal aggregates at 566.0m,rare pyrite in some laminae (eg 589.34) and cementing nodular/irregular aggregates 597.85-598.03
CS-001	730.61	730.98	rare trace pyrite and chacopryrite in breccia matrix 730.70
CS-001	730.98	735.4	
CS-001	735.4	742.3	rare trace pyrite and chacopryrite in breccia matrix
CS-001	742.3	762.21	
CS-001	762.21	806.97	
CS-001	806.97	834.38	
CS-001	834.38	992.87	thin (2-4 mm) irregular/discontinuous pyrite bands 970.06, 980.82m
CS-001	992.87	995.6	
CS-001	995.6	1000.6	local trace very fine aggregates pyrite and ?chalcopryrite
CS-001	1000.6	1013	
CS-001	1013	1051.33	
CS-001	1051.33	1154.36	trace finely crystalline pyrite aggregates and laminae,pyrite associated disrupted fine reddish pink sericitic quartz sand 1056.59-1056.66
CS-001	1154.36	1164.2	
CS-002	0	0.5	
CS-002	0.5	4	
CS-002	4	7	
CS-002	7	13	trace finely crystalline pyrite aggregates
CS-002	13	14	minor pyrite as aggregates and films
CS-002	14	27	
CS-002	27	29	trace pyrite as aggregates and films
CS-002	29	148.95	trace pyrite and chalcopryrite disseminated in sands and in fine bedding parallel calcite veins
CS-002	148.95	189.79	rare fine chalcopryrite disseminated in sands
CS-002	189.79	365.46	rare pyrite in clayey fractures with thin quartz veining,trace chalcopryrite locally

EL 4619 - Coward Springs - Drillhole geology

Hole_ID	From metres	To metres	Hue	Colour 1	Colour Join	Colour 2	Weathering	Lithology 1	Lithology join	Lithology 2	Inferred unit
CS-002	365.46	468	mid	grey	+	(brown)	fresh	shale	+	(sandstone)	Willochra/Angepena
CS-002	468	640.65	mid	brown	+	(grey)	fresh	shale	+	(calc siltstone)	Willochra/Angepena
CS-002	640.65	712.96	mid	brown			fresh	shale	+	(siltstone)	Willochra/Angepena
CS-002	712.96	714.68	mid	brown			fresh	shale	+	(calc shale)	Etina
CS-002	714.68	723	pale	brown			fresh	shale	+	limestone	Brighton
CS-002	723	727.45	mid	red	-	brown	fresh	shale			Yankaninna
CS-002	727.45	736.29	pale	red			fresh	sandstone			Yankaninna
CS-002	736.29	747.18	pale	red			fresh	sandstone			Yankaninna
CS-002	747.18	749.05	dark	red	-	brown	fresh	shale	-	siltstone	Yankaninna
CS-002	749.05	774.73	mid/pale	red	-	grey	fresh	siltstone	+	sandstone	Yankaninna
CS-002	774.73	777.66	pale	grey	-	white	fresh	limestone			Yankaninna
CS-002	777.66	778.03	pale	red			fresh	limestone	-	silty	Yankaninna
CS-002	778.03	778.66	pale	grey	-	white	fresh	limestone			Yankaninna
CS-002	778.66	788.8	mid	red/brown			fresh	calc siltstone	-	silty limestone	Yankaninna
CS-002	788.8	789.71	pale	white	+	(brown)	fresh	limestone			Yankaninna
CS-002	789.71	791.13	pale	white	+	(brown)	fresh	limestone	-	calc sandstone	Yankaninna
CS-002	791.13	792.66	mid	brown	-	(red)	fresh	calc siltstone	-	silty limestone	Yankaninna
CS-002	792.66	793.89	mid	grey	-	(brown)	fresh	calc siltstone	-	calc shale	Yankaninna/Tapley
CS-002	793.89	800.3	mid	brown	-	(grey)	fresh	calc siltstone	-	calc shale	Yankaninna/Tapley
CS-002	800.3	807	mid	grey	-	(brown)	fresh	calc shale	-	calc siltstone	Yankaninna/Tapley

EL 4619 - Coward Springs - Drillhole geology

Hole_ID	From metres	To metres	Lithology_comments
CS-002	365.46	468	laminated grey and red/brown shale and siltstone,minor to subordinate pale grey fine quartz sands-mainly at top,minor sandy dolomitic limestone/calcareous, top sharp, cross bedding common, ripples, occasional slump, scours
CS-002	468	640.65	well laminated red/brown and grey shale, minor interlaminated limy/dolomitic siltstone/fine sandstone-locally rippled/fine cross bedded, top is transitional/gradational, occasional scour, slump
CS-002	640.65	712.96	well laminated red/brown shale, rare-(minor) grey shale and dolomitic siltstone-fine sandstone, occasional massive fine sandy limestone to ~60cms, top is transitional, small cross beds, occasional scour
CS-002	712.96	714.68	laminated red/brown shales as above, scattered pale brown limy shale/shaly limestone nodules to >50mm, top taken at first calc nodule
CS-002	714.68	723	laminated pale brown calc shale/dolomitic limestone, subordinate darker red/brown shale, top transitional with increasing darker red/brown shale
CS-002	723	727.45	massive to laminated red/brown shale, common to abundant small white calcite aggregates-possibly pseudomorphing evaporite precursor
CS-002	727.45	736.29	massive medium to coarse moderate-poorly sorted quartz/lithic sandstone, white limy cement common
CS-002	736.29	747.18	laminated to thin bedded fine to medium quartz/lithic sandstone, well sorted, weak calcite cement, pervasive weak reddish haematite stain, local minor thin coarser beds, locally cross bedded
CS-002	747.18	749.05	massive to laminated darker red/brown shale, grades to siltstone
CS-002	749.05	774.73	interlaminated reddish siltstone and fine-very fine quartz/lithic sandstone, paler laminae calcitic-silty limestone-more common at base, local scours, slumps, minor intraclast breccia, occasional greenish reduced band below 771.4m
CS-002	774.73	777.66	pale grey/white fine grained stromatolitic and sandy (calcareous) limestones, irregular undulose to low domal algal lamination, top contact sharp
CS-002	777.66	778.03	laminated reddish silty limestone, lamination parallel to slightly wavy
CS-002	778.03	778.66	pale grey/white fine grained stromatolitic limestone, irregular domal algal lamination, basal contact sharp, top somewhat diffuse
CS-002	778.66	788.8	well laminated limy siltstone/silty limestone, brownish with red tinge-oxidised, laminae parallel, very uniform/regular, millimetre scale
CS-002	788.8	789.71	pale grey/white to reddish fine grained stromatolitic limestone, irregular and domal algal lamination, basal contact sharp, top somewhat diffuse over 7 cms
CS-002	789.71	791.13	medium grained calcareous quartz/lithic sandstone with strong white calcite cement, laminated to bedded, some cross bedding, minor stromatolitic limestone at base (791.03-791.12)
CS-002	791.13	792.66	well laminated limy siltstone/silty limestone, brown/(red)-oxidised, laminae parallel, very uniform/regular, millimetre scale, minor sandy limestone/calcareous quartz/lithic sandstone, top contact sharp, cross bedded at top
CS-002	792.66	793.89	well laminated grey/brown calcareous siltstone, less oxidised, minor laminated to thin bedded pale calc sandstone scattered throughout
CS-002	793.89	800.3	well laminated limy siltstone/silty limestone, brownish, laminae parallel, very uniform/regular, millimetre scale, minor sandy limestone/calcareous quartz/lithic sandstone
CS-002	800.3	807	well laminated grey calcareous siltstone/silty limestone, less oxidised, possibly Tapley Hill Formation, top transitional

EL 4619 - Coward Springs - Drillhole geology

Hole_ID	From metres	To metres	Sulphide_comment
CS-002	365.46	468	
CS-002	468	640.65	
CS-002	640.65	712.96	
CS-002	712.96	714.68	
CS-002	714.68	723	
CS-002	723	727.45	
CS-002	727.45	736.29	
CS-002	736.29	747.18	
CS-002	747.18	749.05	
CS-002	749.05	774.73	
CS-002	774.73	777.66	
CS-002	777.66	778.03	
CS-002	778.03	778.66	
CS-002	778.66	788.8	
CS-002	788.8	789.71	
CS-002	789.71	791.13	
CS-002	791.13	792.66	
CS-002	792.66	793.89	
CS-002	793.89	800.3	
CS-002	800.3	807	

EL 4619 - Coward Springs - Drillhole geology

Hole_ID	From metres	To metres	Hue	Colour 1	Colour Join	Colour 2	Weathering	Lithology 1	Lithology join	Lithology 2	Inferred unit
CS-002	807	815.06	mid	brown			fresh	calc shale	-	calc siltstone	Yankaninna/Tapley
CS-002	815.06	823.26	pale/mid	grey	-	white	fresh	limestone			Yankaninna/Tapley
CS-002	823.26	832.8	mid	brown	-	(red)	fresh	calc shale			Yankaninna/Tapley
CS-002	832.8	885.12	mid	grey	+	(brown)	fresh	calc shale			Tapley Hill
CS-002	885.12	899.29	pale/mid	grey			fresh	limestone	+	shale	Tapley Hill
CS-002	899.29	902.78	pale	grey			fresh	limestone	-	sandstone	Tapley Hill
CS-002	902.78	905	mid/pale	grey			fresh	shale	+	limestone	Tapley Hill
CS-002	905	919.56	mid	grey	-	(brown)	fresh	calc shale			Tapley Hill
CS-002	919.56	961.72	pale/mid	grey			fresh	limestone	+	(calc shale)	Tapley Hill
CS-002	961.72	1167.2	pale	grey			fresh	limestone	+	calc shale	Tapley Hill

EL 4619 - Coward Springs - Drillhole geology

Hole_ID	From metres	To metres	Lithology_comments
CS-002	807	815.06	well laminated brown/red limy shale,dolomitic, top vague/diffuse
CS-002	815.06	823.26	laminated and stromatolitic limestone,minor medium-coarse calcareous quartz/lithic sandstone,top sharp,silty at base (transitional)
CS-002	823.26	832.8	well laminated brown/red (minor grey) calcareous shale,possibly also dolomitic, top transitional
CS-002	832.8	885.12	well laminated grey (minor brown) calcareous shale,possibly also dolomitic, top transitional
CS-002	885.12	899.29	interbedded stromatolitic limestone,laminated slightly clayey limestone,minor to subordinate grey shale (often calcareous,more common at base)and calcareous quartz/lithic sandstone,occasional intraclast breccia,local cross bedding
CS-002	899.29	902.78	bedded to laminated medium to (coarse) sandy limestone and calcareous quartz/lithic sandstone,some small cross beds
CS-002	902.78	905	interlaminated grey shale and fine sandy limestone,common small scale cross beds
CS-002	905	919.56	well laminated grey (minor brown) calcareous shale,possibly also dolomitic, top gradational but taken at base of first overlying coarse sand
CS-002	919.56	961.72	laminated to thin bedded pale grey sandy limestone and darker calcareous shale, local stromatolitic limestone and darker grey shale,small scale cross beds,scours,graded bedding,minor intraclast breccia,local calcareous quartz/lithic sandstone,
CS-002	961.72	1167.2	laminated pale grey sandy limestone and darker grey calcareous shale,common small scale cross beds,scours,slumps,top at base of major dark shale,minor local calc quartz sands at top

EL 4619 - Coward Springs - Drillhole geology

Hole_ID	From metres	To metres	Sulphide_comment
CS-002	807	815.06	
CS-002	815.06	823.26	minor chalcopryite/pyrite/bornite in narrow (1-2mm) sinuous vein 818.07-818.10
CS-002	823.26	832.8	
CS-002	832.8	885.12	
CS-002	885.12	899.29	trace disseminated pyrite and chalcopryite-mainly in sandstones
CS-002	899.29	902.78	
CS-002	902.78	905	
CS-002	905	919.56	
CS-002	919.56	961.72	trace aggregates and occasional laminae finely crystalline pyrite - mainly in dark shales
CS-002	961.72	1167.2	

APPENDIX 4

Copies of drillers’ invoices



THOMPSON DRILLING COMPANY PTY. LTD.

A.C.N. 007 934 018
A.B.N. 97 305 837 954

South Australia Ludi Mining Pty Ltd
10/237 Wakefield Street
Adelaide SA 5000

20.12.12

Att: Shenglu Zhao

考瓦德泉项目钻探费用(水井和上部地层孔)

STATEMENT

<u>Date</u>	<u>Invoice No.</u>	<u>Job</u>	<u>Debit</u>	
			<u>b/forward</u>	0.00
20.12.12	C0001	Rig 18 to 07.12.12	Coward Springs	145,320.45
			<u>Total</u>	\$ 145,320.45

PLEASE REMIT TO Thompson Drilling Company
Westpac Bank
Mount Gambier.
BSB: 035-074
ACCOUNT: 107804

宋玲

赵峰



THOMPSON DRILLING COMPANY PTY. LTD.

A.C.N. 007 934 018

South Australia Ludi Mining Pty Ltd A.B.N. 97 305 837 954

20.12.12

10/237 Wakefield Street

Adelaide SA 5000

Att: Shenglu Zhao

TAX INVOICE NO. C0001

Re: Coward Springs

AMOUNT

Rig 18

29.11.12	AA 2731	10700.00
30.11.12	AA 2732	2005.00
01.12.12	AA 2733	6700.00
02.12.12	AA 2734	14420.00
03.12.12	AA 2735	5558.50
04.12.12	AA 2736	30613.50
05.12.12	AA 2737	34222.50
06.12.12	AA 2738	6370.00
07.12.12	AA 2739	21520.00

Sub Total	\$	132,109.50
Plus GST 10%	\$	13,210.95
GRAND TOTAL	\$	<u>145,320.45</u>



Techdrill Mining Services Pty Ltd

56 131 658 216

33 Leewood Drive, Orange NSW 2800

Ph: 02 6361 7853 Fx: 02 6361 8076 E: lee-anne.weber@techdrill.com.au

Tax Invoice

Invoice No: **498**

Invoice Date: **31/12/2012**

Period From: **16/12/2012**

To: **31/12/2012**

Contract/Ref:

Job: 168

Rig: R8A

Page: **1**

Customer: SA Ludi Pty Ltd
10/237 Wakefield Street
Adelaide SA 5000

CstRef-Hole	Product	From	To	Qty	per	Rate	Extension
CS001	HQ	HQ core drilling	88.90	200.00	111.10	Metres 135.00	14,998.50
CS001	HQ	HQ core drilling	200.00	258.20	58.20	Metres 145.00	8,439.00
CS001	HQ	HQ core drilling	258.40	400.00	141.60	Metres 145.00	20,532.00
CS001	HQ	HQ core drilling	400.00	534.40	134.40	Metres 155.00	20,832.00
CS001	BD	Inactive - Breakdown			0.00	Hour 0.00	0.00
CS001	DRI	Drilling Time			0.00	Hour 0.00	0.00
CS001	PS	Inactive - Pre Starts			0.00	Hour 0.00	0.00
CS001	BL	Consumable - Bit Lube			8.00	Each 139.30	1,114.40
CS001	CB	Chrome Barrel			445.50	Metres 3.00	1,336.50
CS001	CR	Consumable - CR650			2.00	Each 156.45	312.90
CS001	RG	Consumable - Rod Grease			1.00	Each 199.94	199.94
CS001	SA	Consumable - Soda Ash			3.00	Each 46.24	138.72
CS001	MM	Mixing muds			2.50	Hour 350.00	875.00
CS001	OT	Other			0.00	Hour 1.00	0.00
CS001	RT	Run / pull rods for bit change & grease			4.00	Hour 350.00	1,400.00
CS001	RT	Run in and ream grout out			2.00	Hour 350.00	700.00
CS001	SS	Survey shot/s (per shot)			6.00	Each 95.00	570.00
CS001	ST	Site travel - N/A			0.00	Hour 250.00	0.00
CS001	SU	Set up site			5.00	Hour 350.00	1,750.00
NIL	PS	Inactive - Pre Starts			0.00	Hour 0.00	0.00
NIL	WX	Weather delay (max 10 hours)			8.50	Hour 250.00	2,125.00
NIL	CD	Client delay. Awaiting sump fill in			7.00	Hour 250.00	1,750.00
NIL	MO	Move rig from camp to site			0.50	Hour 350.00	175.00
NIL	MO	Move rig into camp			1.00	Hour 350.00	350.00
NIL	MO	Take lighting equipment to site			0.00	Hour 350.00	0.00
14/12/2012 NIL	MOB	Mobilisation to Roxby Downs site			1.00	Unit 6,000.00	6,000.00
NIL	ST	Site travel - N/A			0.00	Hour 250.00	0.00
NIL	SU	Line rig up			2.00	Hour 350.00	700.00

Sub-total: \$84,298.96

GST: \$8,429.90

Invoice total: \$92,728.86

Direct Deposit Details:

Bank: BSB: 083-144 A/C: 174627284

Acc Name: Techdrill Services

continued on page 2

This is page 2 of Invoice No. 498 for SA Ludi Pty Ltd

CstRef-Hole	Product	From	To	Qty	per	Rate	Extension
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Invoice Summary

Invoice No:	Invoice Date:	Contract/Ref:	Drill Site(s):	Job:	Rig:
498	31/12/2012		William Creek Port Augusta	168	R8A
Product	Qty	per	Rate	Extension	
HQ HQ core drilling	111.10	Metres	135.00	14,998.50	
HQ HQ core drilling	199.80	Metres	145.00	28,971.00	
HQ HQ core drilling	134.40	Metres	155.00	20,832.00	
BD Inactive - Breakdown	0.00	Hour	0.00	0.00	
DRI Drilling Time	0.00	Hour	0.00	0.00	
PS Inactive - Pre Starts	0.00	Hour	0.00	0.00	
WX Weather delay (max 10 hours)	8.50	Hour	250.00	2,125.00	
BL Consumable - Bit Lube	8.00	Each	139.30	1,114.40	
CB Chrome Barrel	445.50	Metres	3.00	1,336.50	
CR Consumable - CR650	2.00	Each	156.45	312.90	
RG Consumable - Rod Grease	1.00	Each	199.94	199.94	
SA Consumable - Soda Ash	3.00	Each	46.24	138.72	
CD Client delay. Awaiting sump fill	7.00	Hour	250.00	1,750.00	
MM Mixing muds	2.50	Hour	350.00	875.00	
MO Move rig from camp to site	1.50	Hour	350.00	525.00	
MOB Mobilisation to Roxby Downs	1.00	Unit	6,000.00	6,000.00	
RT Run / pull rods for bit change &	6.00	Hour	350.00	2,100.00	
SS Survey shot/s (per shot)	6.00	Each	95.00	570.00	
SU Set up site	7.00	Hour	350.00	2,450.00	
sub-Total:				84,298.96	
GST				8,429.90	
Invoice				\$92,728.86	

Direct Deposit Details:

Bank: BSB: 083-144 A/C: 174627284
Acc Name: Techdrill Services

Summary of All Invoices this run:

as at

8/01/2013 1:47:55 PM

Inv. No.	Customer	Net	GST	Total
498	SA Ludi Pty Ltd	84,298.96	8,429.90	92,728.86
For Job=168, Rig=R8A, Hole=<ALL>		84,298.96	8,429.90	92,728.86

Direct Deposit Details:

Bank: BSB: 083-144 A/C: 174627284

Acc Name: Techdrill Services

Job: 168**Customer:** LUDI SA Ludi Pty Ltd**Rig:** R8A

Date Shft	Plod	Hole	Rig	Type	Product	From	To	TotClient	TotCoy.	Serial/CustReference	Qty	Rate	Extension	
16/12D	18479	NIL	R8A	6	MOB	Mobilisation to Roxby Downs site			1.00	0.00	14/12/2012	1.00	6,000.00	6,000.00
16/12D	18480	NIL	R8A	4	PS	Inactive - Pre Starts			0.00	0.50	15/12/2012	0.00	0.00	0.00
16/12D	18480	NIL	R8A	4	WX	Weather delay (max 10 hours)			0.00	9.50	15/12/2012	0.00	250.00	0.00
16/12D	18480	NIL	R8A	6	ST	Site travel - N/A			0.00	2.00	15/12/2012	0.00	250.00	0.00
16/12D	18481	NIL	R8A	4	PS	Inactive - Pre Starts			0.00	0.50		0.00	0.00	0.00
16/12D	18481	NIL	R8A	4	WX	Weather delay (max 10 hours)			0.00	9.50		0.00	250.00	0.00
16/12D	18481	NIL	R8A	6	ST	Site travel - N/A			0.00	2.00		0.00	250.00	0.00
17/12D	18482	NIL	R8A	4	PS	Inactive - Pre Starts			0.00	0.50		0.00	0.00	0.00
17/12D	18482	NIL	R8A	4	WX	Weather delay (max 10 hours)			0.00	8.50		0.00	250.00	0.00
17/12D	18482	NIL	R8A	6	MO	Take lighting equipment to site			0.00	1.00		0.00	350.00	0.00
17/12D	18482	NIL	R8A	6	ST	Site travel - N/A			0.00	2.00		0.00	250.00	0.00
18/12D	18483	NIL	R8A	4	PS	Inactive - Pre Starts			0.00	0.50		0.00	0.00	0.00
18/12D	18483	NIL	R8A	4	WX	Weather delay (max 10 hours)			8.50	0.00		8.50	250.00	2,125.00
18/12D	18483	NIL	R8A	6	MO	Move rig into camp			1.00	0.00		1.00	350.00	350.00
18/12D	18483	NIL	R8A	6	ST	Site travel - N/A			0.00	2.00		0.00	250.00	0.00
19/12D	18484	NIL	R8A	4	PS	Inactive - Pre Starts			0.00	0.50		0.00	0.00	0.00
19/12D	18484	NIL	R8A	6	CD	Client delay. Awaiting sump fill in			7.00	0.00		7.00	250.00	1,750.00
19/12D	18484	NIL	R8A	6	MO	Move rig from camp to site			0.50	0.00		0.50	350.00	175.00
19/12D	18484	NIL	R8A	6	ST	Site travel - N/A			0.00	2.00		0.00	250.00	0.00
19/12D	18484	NIL	R8A	6	SU	Line rig up			2.00	0.00		2.00	350.00	700.00
20/12D	18485	CS001	R8A	2	HQ	HQ core drilling	88.90	102.40	13.50	0.00		13.50	135.00	1,822.50
20/12D	18485	CS001	R8A	4	DRI	Drilling Time			0.00	2.50		0.00	0.00	0.00
20/12D	18485	CS001	R8A	4	PS	Inactive - Pre Starts			0.00	0.50		0.00	0.00	0.00
20/12D	18485	CS001	R8A	5	BL	Consumable - Bit Lube			1.00	0.00		1.00	139.30	139.30
20/12D	18485	CS001	R8A	5	CB	Chrome Barrel			13.50	0.00		13.50	3.00	40.50
20/12D	18485	CS001	R8A	5	CR	Consumable - CR650			1.00	0.00		1.00	156.45	156.45
20/12D	18485	CS001	R8A	5	RG	Consumable - Rod Grease			1.00	0.00		1.00	199.94	199.94
20/12D	18485	CS001	R8A	6	RT	Run in and ream grout out			2.00	0.00		2.00	350.00	700.00
20/12D	18485	CS001	R8A	6	ST	Site travel - N/A			0.00	2.00		0.00	250.00	0.00
20/12D	18485	CS001	R8A	6	SU	Set up site			5.00	0.00		5.00	350.00	1,750.00
21/12D	18486	CS001	R8A	2	HQ	HQ core drilling	102.40	120.40	18.00	0.00		18.00	135.00	2,430.00
21/12D	18486	CS001	R8A	4	BD	Inactive - Breakdown			0.00	5.00		0.00	0.00	0.00
21/12D	18486	CS001	R8A	4	DRI	Drilling Time			0.00	5.50		0.00	0.00	0.00

Proforma Invoices

as at 8/01/2013 1:47:56 PM

Date Shft	Plod	Hole	Rig	Type	Product	From	To	TotClient	TotCoy.	Serial/CustReference	Qty	Rate	Extension	
21/12D	18486	CS001	R8A	4	PS	Inactive - Pre Starts			0.00	0.50		0.00	0.00	0.00
21/12D	18486	CS001	R8A	5	BL	Consumable - Bit Lube			1.00	0.00		1.00	139.30	139.30
21/12D	18486	CS001	R8A	5	CB	Chrome Barrel			18.00	0.00		18.00	3.00	54.00
21/12D	18486	CS001	R8A	5	SA	Consumable - Soda Ash			1.00	0.00		1.00	46.24	46.24
21/12D	18486	CS001	R8A	6	ST	Site travel - N/A			0.00	2.00		0.00	250.00	0.00
22/12D	18487	CS001	R8A	2	HQ	HQ core drilling	120.40	162.40	42.00	0.00		42.00	135.00	5,670.00
22/12D	18487	CS001	R8A	4	DRI	Drilling Time			0.00	9.00		0.00	0.00	0.00
22/12D	18487	CS001	R8A	4	PS	Inactive - Pre Starts			0.00	0.50		0.00	0.00	0.00
22/12D	18487	CS001	R8A	5	CB	Chrome Barrel			42.00	0.00		42.00	3.00	126.00
22/12D	18487	CS001	R8A	6	SS	Survey shot/s (per shot)			1.00	0.00		1.00	95.00	95.00
22/12D	18487	CS001	R8A	6	ST	Site travel - N/A			0.00	2.00		0.00	250.00	0.00
23/12D	18488	CS001	R8A	2	HQ	HQ core drilling	162.40	200.00	37.60	0.00		37.60	135.00	5,076.00
23/12D	18488	CS001	R8A	2	HQ	HQ core drilling	200.00	204.20	4.20	0.00		4.20	145.00	609.00
23/12D	18488	CS001	R8A	4	DRI	Drilling Time			0.00	8.50		0.00	0.00	0.00
23/12D	18488	CS001	R8A	4	PS	Inactive - Pre Starts			0.00	0.50		0.00	0.00	0.00
23/12D	18488	CS001	R8A	5	BL	Consumable - Bit Lube			1.00	0.00		1.00	139.30	139.30
23/12D	18488	CS001	R8A	5	CB	Chrome Barrel			41.80	0.00		41.80	3.00	125.40
23/12D	18488	CS001	R8A	5	SA	Consumable - Soda Ash			1.00	0.00		1.00	46.24	46.24
23/12D	18488	CS001	R8A	6	SS	Survey shot/s (per shot)			2.00	0.00		2.00	95.00	190.00
23/12D	18488	CS001	R8A	6	ST	Site travel - N/A			0.00	2.00		0.00	250.00	0.00
24/12D	18489	CS001	R8A	2	HQ	HQ core drilling	204.20	258.20	54.00	0.00		54.00	145.00	7,830.00
24/12D	18489	CS001	R8A	4	DRI	Drilling Time			0.00	9.50		0.00	0.00	0.00
24/12D	18489	CS001	R8A	4	PS	Inactive - Pre Starts			0.00	0.50		0.00	0.00	0.00
24/12D	18489	CS001	R8A	5	BL	Consumable - Bit Lube			1.00	0.00		1.00	139.30	139.30
24/12D	18489	CS001	R8A	5	CB	Chrome Barrel			54.20	0.00		54.20	3.00	162.60
24/12D	18489	CS001	R8A	5	CR	Consumable - CR650			1.00	0.00		1.00	156.45	156.45
24/12D	18489	CS001	R8A	6	ST	Site travel - N/A			0.00	2.00		0.00	250.00	0.00
25/12D	18490	CS001	R8A	2	HQ	HQ core drilling	258.40	300.40	42.00	0.00		42.00	145.00	6,090.00
25/12D	18490	CS001	R8A	4	DRI	Drilling Time			0.00	6.50		0.00	0.00	0.00
25/12D	18490	CS001	R8A	4	PS	Inactive - Pre Starts			0.00	0.50		0.00	0.00	0.00
25/12D	18490	CS001	R8A	5	BL	Consumable - Bit Lube			1.00	0.00		1.00	139.30	139.30
25/12D	18490	CS001	R8A	5	CB	Chrome Barrel			42.00	0.00		42.00	3.00	126.00
25/12D	18490	CS001	R8A	6	OT	Other			0.00	3.00		0.00	1.00	0.00
25/12D	18490	CS001	R8A	6	ST	Site travel - N/A			0.00	2.00		0.00	250.00	0.00
26/12D	18491	CS001	R8A	2	HQ	HQ core drilling	300.40	336.40	36.00	0.00		36.00	145.00	5,220.00
26/12D	18491	CS001	R8A	4	DRI	Drilling Time			0.00	7.50		0.00	0.00	0.00
26/12D	18491	CS001	R8A	4	PS	Inactive - Pre Starts			0.00	0.50		0.00	0.00	0.00
26/12D	18491	CS001	R8A	5	CB	Chrome Barrel			36.00	0.00		36.00	3.00	108.00
26/12D	18491	CS001	R8A	5	SA	Consumable - Soda Ash			1.00	0.00		1.00	46.24	46.24
26/12D	18491	CS001	R8A	6	OT	Other			0.00	1.50		0.00	1.00	0.00
26/12D	18491	CS001	R8A	6	SS	Survey shot/s (per shot)			1.00	0.00		1.00	95.00	95.00

Proforma Invoices

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Date Shft	Plod	Hole	Rig	Type	Product	From	To	TotClient	TotCoy.	Serial/CustReference	Qty	Rate	Extension
26/12D	18491	CS001	R8A	6	ST	Site travel - N/A			0.00	2.00	0.00	250.00	0.00
27/12D	18492	CS001	R8A	2	HQ	HQ core drilling	336.40	378.40	42.00	0.00	42.00	145.00	6,090.00
27/12D	18492	CS001	R8A	4	DRI	Drilling Time			0.00	9.50	0.00	0.00	0.00
27/12D	18492	CS001	R8A	4	PS	Inactive - Pre Starts			0.00	0.50	0.00	0.00	0.00
27/12D	18492	CS001	R8A	5	CB	Chrome Barrel			42.00	0.00	42.00	3.00	126.00
27/12D	18492	CS001	R8A	6	ST	Site travel - N/A			0.00	2.00	0.00	250.00	0.00
28/12D	18493	CS001	R8A	2	HQ	HQ core drilling	378.40	400.00	21.60	0.00	21.60	145.00	3,132.00
28/12D	18493	CS001	R8A	2	HQ	HQ core drilling	400.00	402.40	2.40	0.00	2.40	155.00	372.00
28/12D	18493	CS001	R8A	4	DRI	Drilling Time			0.00	4.50	0.00	0.00	0.00
28/12D	18493	CS001	R8A	4	PS	Inactive - Pre Starts			0.00	0.50	0.00	0.00	0.00
28/12D	18493	CS001	R8A	5	CB	Chrome Barrel			24.00	0.00	24.00	3.00	72.00
28/12D	18493	CS001	R8A	6	MM	Mixing muds			0.50	0.00	0.50	350.00	175.00
28/12D	18493	CS001	R8A	6	RT	Run / pull rods for bit change & grease			4.00	0.00	4.00	350.00	1,400.00
28/12D	18493	CS001	R8A	6	SS	Survey shot/s (per shot)			1.00	0.00	1.00	95.00	95.00
28/12D	18493	CS001	R8A	6	ST	Site travel - N/A			0.00	2.00	0.00	250.00	0.00
29/12D	18494	CS001	R8A	2	HQ	HQ core drilling	402.40	450.40	48.00	0.00	48.00	155.00	7,440.00
29/12D	18494	CS001	R8A	4	DRI	Drilling Time			0.00	9.00	0.00	0.00	0.00
29/12D	18494	CS001	R8A	4	PS	Inactive - Pre Starts			0.00	0.50	0.00	0.00	0.00
29/12D	18494	CS001	R8A	5	BL	Consumable - Bit Lube			1.00	0.00	1.00	139.30	139.30
29/12D	18494	CS001	R8A	5	CB	Chrome Barrel			48.00	0.00	48.00	3.00	144.00
29/12D	18494	CS001	R8A	6	MM	Mixing muds			0.50	0.00	0.50	350.00	175.00
29/12D	18494	CS001	R8A	6	ST	Site travel - N/A			0.00	2.00	0.00	250.00	0.00
30/12D	18495	CS001	R8A	2	HQ	HQ core drilling	450.40	492.40	42.00	0.00	42.00	155.00	6,510.00
30/12D	18495	CS001	R8A	4	DRI	Drilling Time			0.00	9.00	0.00	0.00	0.00
30/12D	18495	CS001	R8A	4	PS	Inactive - Pre Starts			0.00	0.50	0.00	0.00	0.00
30/12D	18495	CS001	R8A	5	BL	Consumable - Bit Lube			1.00	0.00	1.00	139.30	139.30
30/12D	18495	CS001	R8A	5	CB	Chrome Barrel			42.00	0.00	42.00	3.00	126.00
30/12D	18495	CS001	R8A	6	MM	Mixing muds			0.50	0.00	0.50	350.00	175.00
30/12D	18495	CS001	R8A	6	ST	Site travel - N/A			0.00	2.00	0.00	250.00	0.00
31/12D	18496	CS001	R8A	2	HQ	HQ core drilling	492.40	534.40	42.00	0.00	42.00	155.00	6,510.00
31/12D	18496	CS001	R8A	4	DRI	Drilling Time			0.00	8.00	0.00	0.00	0.00
31/12D	18496	CS001	R8A	4	PS	Inactive - Pre Starts			0.00	0.50	0.00	0.00	0.00
31/12D	18496	CS001	R8A	5	BL	Consumable - Bit Lube			1.00	0.00	1.00	139.30	139.30
31/12D	18496	CS001	R8A	5	CB	Chrome Barrel			42.00	0.00	42.00	3.00	126.00
31/12D	18496	CS001	R8A	6	MM	Mixing muds			1.00	0.00	1.00	350.00	350.00
31/12D	18496	CS001	R8A	6	SS	Survey shot/s (per shot)			1.00	0.00	1.00	95.00	95.00
31/12D	18496	CS001	R8A	6	ST	Site travel - N/A			0.00	2.00	0.00	250.00	0.00

Total for Job 168 = \$84,298.96

Total for Rig R8A = \$84,298.96



Techdrill Mining Services Pty Ltd

56 131 658 216

33 Leewood Drive, Orange NSW 2800

Ph: 02 6361 7853 Fx: 02 6361 8076 E: lee-anne.weber@techdrill.com.au

Tax Invoice

Invoice No: 502

Invoice Date: 15/01/2013

Period From: 1/01/2013

To: 15/01/2013

Contract/Ref:

Job: 168

Rig: R8A

Page: 1

Customer: SA Ludi Pty Ltd
10/237 Wakefield Street
Adelaide SA 5000

CstRef-Hole	Product	From	To	Qty	per	Rate	Extension
CS001	HQ	HQ core drilling	534.40	600.00	65.60	Metres 155.00	10,168.00
CS001	HQ	HQ core drilling	600.00	719.60	119.60	Metres 165.00	19,734.00
CS001	NQ	NQ core drilling	719.60	800.00	80.40	Metres 155.00	12,462.00
CS001	NQ	NQ core drilling	800.00	1,000.00	200.00	Metres 165.00	33,000.00
CS001	NQ	NQ core drilling	1,000.00	1,164.20	164.20	Metres 180.00	29,556.00
CS001	BD	Inactive - Breakdown			0.00	Hour 0.00	0.00
CS001	BD	Inactive - Breakdown. Awaiting parts			0.00	Hour 0.00	0.00
CS001	DRI	Drilling Time			0.00	Hour 0.00	0.00
CS001	MT	Inactive - Maintenance			0.00	Hour 0.00	0.00
CS001	PS	Inactive - Pre Starts			0.00	Hour 0.00	0.00
CS001	BL	Consumable - Bit Lube			24.00	Each 139.30	3,343.20
CS001	CB	Chrome Barrel			581.80	Metres 3.00	1,745.40
CS001	CR	Consumable - CR650			9.00	Each 156.45	1,408.05
CS001	ET	Consumable - Extra Tacky			2.00	Each 191.24	382.48
CS001	ET	Consumable - Xtra Tacky			3.00	Each 191.24	573.72
CS001	SA	Consumable - Soda Ash			3.00	Each 46.24	138.72
CS001	TR	Consumable - Trol - 1 kg bag			1.00	Each 16.10	16.10
CS001	CAMD	Survey camera hire (per day)			15.00	Day 110.00	1,650.00
CS001	CO	Condition hole due ground condition			2.50	Hour 350.00	875.00
CS001	CO	Flush after rod trip			1.00	Hour 350.00	350.00
CS001	CO	Flush hole			0.50	Hour 350.00	175.00
CS001	CO	Flush hole after rod trip			0.50	Hour 350.00	175.00
CS001	CO	Flush hole of cuttings			0.50	Hour 350.00	175.00
CS001	CO	Flush hole throughout shift			0.50	Hour 350.00	175.00
CS001	CO	Flush hole to remove excess cuttings			1.00	Hour 350.00	350.00
CS001	MM	Mixing muds			5.50	Hour 350.00	1,925.00
CS001	MO	Move rig between holes wait surveyor			5.50	Hour 350.00	1,925.00
CS001	MO	Move to next hole wait for surveyor			4.50	Hour 350.00	1,575.00
CS001	RT	HQ E.O.H rod pull			4.00	Hour 350.00	1,400.00
CS001	RT	Run / pull rods			8.50	Hour 350.00	2,975.00
CS001	RT	Run / pull rods EOH			5.00	Hour 350.00	1,750.00
CS001	RT	Run / pull rods to clean bit			0.00	Hour 350.00	0.00
CS001	RT	Run / pull rods to run in NQ			8.00	Hour 350.00	2,800.00
CS001	RT	Run in NQ barrel			5.00	Hour 350.00	1,750.00
CS001	SS	Survey shot/s (per shot)			5.00	Each 95.00	475.00
CS001	ST	Site travel - N/A			0.00	Hour 250.00	0.00
CS001	SU	Move gear to next site			10.00	Hour 350.00	3,500.00
CS001	SU	Set up sloops for NQ			2.00	Hour 350.00	700.00
CS001	SU	Start to pack up site			1.00	Hour 350.00	350.00

Sub-total: \$137,577.67

GST: \$13,757.77

Invoice total: \$151,335.44

Direct Deposit Details:

Bank: BSB: 083-144 A/C: 174627284

Acc Name: Techdrill Services

continued on page 2

CstRef-Hole	Product	From	To	Qty	per	Rate	Extension
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Invoice Summary

Invoice No:	Invoice Date:	Contract/Ref:	Drill Site(s):	Job:	Rig:
502	15/01/2013		William Creek Williams Creek	168	R8A
Product	Qty	per	Rate	Extension	
HQ HQ core drilling	65.60	Metres	155.00	10,168.00	
HQ HQ core drilling	119.60	Metres	165.00	19,734.00	
NQ NQ core drilling	80.40	Metres	155.00	12,462.00	
NQ NQ core drilling	200.00	Metres	165.00	33,000.00	
NQ NQ core drilling	164.20	Metres	180.00	29,556.00	
BD Inactive - Breakdown	0.00	Hour	0.00	0.00	
DRI Drilling Time	0.00	Hour	0.00	0.00	
MT Inactive - Maintenance	0.00	Hour	0.00	0.00	
PS Inactive - Pre Starts	0.00	Hour	0.00	0.00	
BL Consumable - Bit Lube	24.00	Each	139.30	3,343.20	
CB Chrome Barrel	581.80	Metres	3.00	1,745.40	
CR Consumable - CR650	9.00	Each	156.45	1,408.05	
ET Consumable - Extra Tacky	5.00	Each	191.24	956.20	
SA Consumable - Soda Ash	3.00	Each	46.24	138.72	
TR Consumable - Trol - 1 kg bag	1.00	Each	16.10	16.10	
CAMD Survey camera hire (per day)	15.00	Day	110.00	1,650.00	
CO Condition hole due ground	6.50	Hour	350.00	2,275.00	
MM Mixing muds	5.50	Hour	350.00	1,925.00	
MO Move rig between holes wait	10.00	Hour	350.00	3,500.00	
RT HQ E.O.H rod pull	30.50	Hour	350.00	10,675.00	
SS Survey shot/s (per shot)	5.00	Each	95.00	475.00	
SU Move gear to next site	13.00	Hour	350.00	4,550.00	
sub-Total:				137,577.67	
GST				13,757.77	
Invoice				\$151,335.44	

Direct Deposit Details:

Bank: BSB: 083-144 A/C: 174627284
Acc Name: Techdrill Services

Summary of All Invoices this run: as at 21/01/2013 3:12:40 PM

Inv. No.	Customer	Net	GST	Total
502	SA Ludi Pty Ltd	137,577.67	13,757.77	151,335.44
For Job=168, Rig=R8A, Hole=<ALL>		137,577.67	13,757.77	151,335.44

Direct Deposit Details: Bank: BSB: 083-144 A/C: 174627284 Acc Name: Techdrill Services
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Job: 168

Customer: LUDI SA Ludi Pty Ltd

Rig: R8A

Date Shft	Plod	Hole	Rig	Type	Product	From	To	TotClient	TotCoy.	Serial/CustReference	Qty	Rate	Extension	
01/01D	18497	CS001	R8A	2	HQ	HQ core drilling	534.40	576.40	42.00	0.00		42.00	155.00	6,510.00
01/01D	18497	CS001	R8A	4	DRI	Drilling Time			0.00	9.00		0.00	0.00	0.00
01/01D	18497	CS001	R8A	4	PS	Inactive - Pre Starts			0.00	0.50		0.00	0.00	0.00
01/01D	18497	CS001	R8A	5	CB	Chrome Barrel			42.00	0.00		42.00	3.00	126.00
01/01D	18497	CS001	R8A	5	CR	Consumable - CR650			1.00	0.00		1.00	156.45	156.45
01/01D	18497	CS001	R8A	6	MM	Mixing muds			0.50	0.00		0.50	350.00	175.00
01/01D	18497	CS001	R8A	6	ST	Site travel - N/A			0.00	2.00		0.00	250.00	0.00
02/01D	18498	CS001	R8A	2	HQ	HQ core drilling	576.40	600.00	23.60	0.00		23.60	155.00	3,658.00
02/01D	18498	CS001	R8A	2	HQ	HQ core drilling	600.00	618.40	18.40	0.00		18.40	165.00	3,036.00
02/01D	18498	CS001	R8A	4	DRI	Drilling Time			0.00	9.00		0.00	0.00	0.00
02/01D	18498	CS001	R8A	4	PS	Inactive - Pre Starts			0.00	0.50		0.00	0.00	0.00
02/01D	18498	CS001	R8A	5	BL	Consumable - Bit Lube			1.00	0.00		1.00	139.30	139.30
02/01D	18498	CS001	R8A	5	CB	Chrome Barrel			42.00	0.00		42.00	3.00	126.00
02/01D	18498	CS001	R8A	6	MM	Mixing muds			0.50	0.00		0.50	350.00	175.00
02/01D	18498	CS001	R8A	6	ST	Site travel - N/A			0.00	2.00		0.00	250.00	0.00
03/01D	18499	CS001	R8A	2	HQ	HQ core drilling	618.40	666.40	48.00	0.00		48.00	165.00	7,920.00
03/01D	18499	CS001	R8A	4	DRI	Drilling Time			0.00	9.00		0.00	0.00	0.00
03/01D	18499	CS001	R8A	4	PS	Inactive - Pre Starts			0.00	0.50		0.00	0.00	0.00
03/01D	18499	CS001	R8A	5	BL	Consumable - Bit Lube			1.00	0.00		1.00	139.30	139.30
03/01D	18499	CS001	R8A	5	CB	Chrome Barrel			48.00	0.00		48.00	3.00	144.00
03/01D	18499	CS001	R8A	6	MM	Mixing muds			0.50	0.00		0.50	350.00	175.00
03/01D	18499	CS001	R8A	6	ST	Site travel - N/A			0.00	2.00		0.00	250.00	0.00
04/01D	18500	CS001	R8A	2	HQ	HQ core drilling	666.40	714.40	48.00	0.00		48.00	165.00	7,920.00
04/01D	18500	CS001	R8A	4	DRI	Drilling Time			0.00	8.50		0.00	0.00	0.00
04/01D	18500	CS001	R8A	4	PS	Inactive - Pre Starts			0.00	0.50		0.00	0.00	0.00
04/01D	18500	CS001	R8A	5	BL	Consumable - Bit Lube			1.00	0.00		1.00	139.30	139.30
04/01D	18500	CS001	R8A	5	CB	Chrome Barrel			48.00	0.00		48.00	3.00	144.00
04/01D	18500	CS001	R8A	5	CR	Consumable - CR650			1.00	0.00		1.00	156.45	156.45
04/01D	18500	CS001	R8A	6	MM	Mixing muds			0.50	0.00		0.50	350.00	175.00
04/01D	18500	CS001	R8A	6	SS	Survey shot/s (per shot)			1.00	0.00		1.00	95.00	95.00
04/01D	18500	CS001	R8A	6	ST	Site travel - N/A			0.00	2.00		0.00	250.00	0.00
05/01D	17453	CS001	R8A	2	HQ	HQ core drilling	714.40	719.60	5.20	0.00		5.20	165.00	858.00
05/01D	17453	CS001	R8A	4	DRI	Drilling Time			0.00	1.00		0.00	0.00	0.00

Proforma Invoices

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Date Shft	Plod	Hole	Rig	Type	Product	From	To	TotClient	TotCoy.	Serial/CustReference	Qty	Rate	Extension	
05/01D	17453	CS001	R8A	4	PS	Inactive - Pre Starts			0.00	0.50		0.00	0.00	0.00
05/01D	17453	CS001	R8A	5	BL	Consumable - Bit Lube			3.00	0.00		3.00	139.30	417.90
05/01D	17453	CS001	R8A	5	CB	Chrome Barrel			5.20	0.00		5.20	3.00	15.60
05/01D	17453	CS001	R8A	5	ET	Consumable - Xtra Tacky			3.00	0.00		3.00	191.24	573.72
05/01D	17453	CS001	R8A	5	TR	Consumable - Trol - 1 kg bag			1.00	0.00		1.00	16.10	16.10
05/01D	17453	CS001	R8A	6	MM	Mixing muds			0.50	0.00		0.50	350.00	175.00
05/01D	17453	CS001	R8A	6	RT	Run / pull rods to run in NQ			8.00	0.00		8.00	350.00	2,800.00
05/01D	17453	CS001	R8A	6	ST	Site travel - N/A			0.00	2.00		0.00	250.00	0.00
05/01N	17454	CS001	R8A	2	NQ	NQ core drilling	719.60	725.70	6.10	0.00		6.10	155.00	945.50
05/01N	17454	CS001	R8A	4	DRI	Drilling Time			0.00	1.50		0.00	0.00	0.00
05/01N	17454	CS001	R8A	4	PS	Inactive - Pre Starts			0.00	0.50		0.00	0.00	0.00
05/01N	17454	CS001	R8A	5	CB	Chrome Barrel			6.10	0.00		6.10	3.00	18.30
05/01N	17454	CS001	R8A	6	CO	Flush after rod trip			1.00	0.00		1.00	350.00	350.00
05/01N	17454	CS001	R8A	6	RT	Run in NQ barrel			5.00	0.00		5.00	350.00	1,750.00
05/01N	17454	CS001	R8A	6	ST	Site travel - N/A			0.00	2.00		0.00	250.00	0.00
05/01N	17454	CS001	R8A	6	SU	Set up sloops for NQ			2.00	0.00		2.00	350.00	700.00
06/01D	17455	CS001	R8A	2	NQ	NQ core drilling	725.70	780.20	54.50	0.00		54.50	155.00	8,447.50
06/01D	17455	CS001	R8A	4	DRI	Drilling Time			0.00	9.00		0.00	0.00	0.00
06/01D	17455	CS001	R8A	4	PS	Inactive - Pre Starts			0.00	0.50		0.00	0.00	0.00
06/01D	17455	CS001	R8A	5	BL	Consumable - Bit Lube			1.00	0.00		1.00	139.30	139.30
06/01D	17455	CS001	R8A	5	CB	Chrome Barrel			54.50	0.00		54.50	3.00	163.50
06/01D	17455	CS001	R8A	5	CR	Consumable - CR650			1.00	0.00		1.00	156.45	156.45
06/01D	17455	CS001	R8A	6	CO	Flush hole of cuttings			0.50	0.00		0.50	350.00	175.00
06/01D	17455	CS001	R8A	6	ST	Site travel - N/A			0.00	2.00		0.00	250.00	0.00
06/01N	17456	CS001	R8A	2	NQ	NQ core drilling	780.20	800.00	19.80	0.00		19.80	155.00	3,069.00
06/01N	17456	CS001	R8A	2	NQ	NQ core drilling	800.00	834.20	34.20	0.00		34.20	165.00	5,643.00
06/01N	17456	CS001	R8A	4	DRI	Drilling Time			0.00	8.50		0.00	0.00	0.00
06/01N	17456	CS001	R8A	4	PS	Inactive - Pre Starts			0.00	0.50		0.00	0.00	0.00
06/01N	17456	CS001	R8A	5	BL	Consumable - Bit Lube			1.00	0.00		1.00	139.30	139.30
06/01N	17456	CS001	R8A	5	CB	Chrome Barrel			54.00	0.00		54.00	3.00	162.00
06/01N	17456	CS001	R8A	6	CO	Flush hole throughout shift			0.50	0.00		0.50	350.00	175.00
06/01N	17456	CS001	R8A	6	SS	Survey shot/s (per shot)			1.00	0.00		1.00	95.00	95.00
06/01N	17456	CS001	R8A	6	ST	Site travel - N/A			0.00	2.00		0.00	250.00	0.00
07/01D	17457	CS001	R8A	2	NQ	NQ core drilling	834.20	882.20	48.00	0.00		48.00	165.00	7,920.00
07/01D	17457	CS001	R8A	4	DRI	Drilling Time			0.00	9.00		0.00	0.00	0.00
07/01D	17457	CS001	R8A	4	PS	Inactive - Pre Starts			0.00	0.50		0.00	0.00	0.00
07/01D	17457	CS001	R8A	5	BL	Consumable - Bit Lube			1.00	0.00		1.00	139.30	139.30
07/01D	17457	CS001	R8A	6	CO	Condition hole due ground condition			0.50	0.00		0.50	350.00	175.00
07/01D	17457	CS001	R8A	6	ST	Site travel - N/A			0.00	2.00		0.00	250.00	0.00
07/01N	17458	CS001	R8A	2	NQ	NQ core drilling	882.20	908.20	26.00	0.00		26.00	165.00	4,290.00
07/01N	17458	CS001	R8A	4	BD	Inactive - Breakdown			0.00	3.00		0.00	0.00	0.00

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Date Shft	Plod	Hole	Rig	Type	Product	From	To	TotClient	TotCoy.	Serial/CustReference	Qty	Rate	Extension	
07/01N	17458	CS001	R8A	4	DRI	Drilling Time			0.00	8.00		0.00	0.00	0.00
07/01N	17458	CS001	R8A	4	PS	Inactive - Pre Starts			0.00	0.50		0.00	0.00	0.00
07/01N	17458	CS001	R8A	5	BL	Consumable - Bit Lube			2.00	0.00		2.00	139.30	278.60
07/01N	17458	CS001	R8A	5	CB	Chrome Barrel			26.00	0.00		26.00	3.00	78.00
07/01N	17458	CS001	R8A	5	CR	Consumable - CR650			1.00	0.00		1.00	156.45	156.45
07/01N	17458	CS001	R8A	6	MM	Mixing muds			0.50	0.00		0.50	350.00	175.00
07/01N	17458	CS001	R8A	6	ST	Site travel - N/A			0.00	2.00		0.00	250.00	0.00
08/01D	17459	CS001	R8A	4	BD	Inactive - Breakdown			0.00	6.00		0.00	0.00	0.00
08/01D	17459	CS001	R8A	4	PS	Inactive - Pre Starts			0.00	0.50		0.00	0.00	0.00
08/01D	17459	CS001	R8A	6	RT	Run / pull rods			3.00	0.00		3.00	350.00	1,050.00
08/01D	17459	CS001	R8A	6	ST	Site travel - N/A			0.00	2.50		0.00	250.00	0.00
08/01N	17460	CS001	R8A	4	BD	Inactive - Breakdown. Awaiting parts			0.00	12.00		0.00	0.00	0.00
09/01D	17461	CS001	R8A	4	BD	Inactive - Breakdown			0.00	12.00		0.00	0.00	0.00
09/01N	17462	CS001	R8A	2	NQ	NQ core drilling	908.20	908.30	0.10	0.00		0.10	165.00	16.50
09/01N	17462	CS001	R8A	4	PS	Inactive - Pre Starts			0.00	0.50		0.00	0.00	0.00
09/01N	17462	CS001	R8A	5	BL	Consumable - Bit Lube			1.00	0.00		1.00	139.30	139.30
09/01N	17462	CS001	R8A	5	CB	Chrome Barrel			0.10	0.00		0.10	3.00	0.30
09/01N	17462	CS001	R8A	5	ET	Consumable - Extra Tacky			2.00	0.00		2.00	191.24	382.48
09/01N	17462	CS001	R8A	6	CO	Flush hole after rod trip			0.50	0.00		0.50	350.00	175.00
09/01N	17462	CS001	R8A	6	MM	Mixing muds			1.50	0.00		1.50	350.00	525.00
09/01N	17462	CS001	R8A	6	RT	Run / pull rods			5.50	0.00		5.50	350.00	1,925.00
10/01D	17463	CS001	R8A	2	NQ	NQ core drilling	908.30	918.20	9.90	0.00		9.90	165.00	1,633.50
10/01D	17463	CS001	R8A	4	DRI	Drilling Time			0.00	2.50		0.00	0.00	0.00
10/01D	17463	CS001	R8A	4	MT	Inactive - Maintenance			0.00	0.50		0.00	0.00	0.00
10/01D	17463	CS001	R8A	4	PS	Inactive - Pre Starts			0.00	0.50		0.00	0.00	0.00
10/01D	17463	CS001	R8A	5	BL	Consumable - Bit Lube			2.00	0.00		2.00	139.30	278.60
10/01D	17463	CS001	R8A	5	CB	Chrome Barrel			9.90	0.00		9.90	3.00	29.70
10/01D	17463	CS001	R8A	5	CR	Consumable - CR650			1.00	0.00		1.00	156.45	156.45
10/01D	17463	CS001	R8A	6	RT	Run / pull rods to clean bit			0.00	6.50		0.00	350.00	0.00
10/01D	17463	CS001	R8A	6	ST	Site travel - N/A			0.00	2.00		0.00	250.00	0.00
10/01N	17464	CS001	R8A	2	NQ	NQ core drilling	918.20	954.20	36.00	0.00		36.00	165.00	5,940.00
10/01N	17464	CS001	R8A	4	BD	Inactive - Breakdown			0.00	1.00		0.00	0.00	0.00
10/01N	17464	CS001	R8A	4	DRI	Drilling Time			0.00	8.50		0.00	0.00	0.00
10/01N	17464	CS001	R8A	4	PS	Inactive - Pre Starts			0.00	0.50		0.00	0.00	0.00
10/01N	17464	CS001	R8A	5	BL	Consumable - Bit Lube			1.00	0.00		1.00	139.30	139.30
10/01N	17464	CS001	R8A	5	CB	Chrome Barrel			36.00	0.00		36.00	3.00	108.00
10/01N	17464	CS001	R8A	5	CR	Consumable - CR650			1.00	0.00		1.00	156.45	156.45
10/01N	17464	CS001	R8A	5	SA	Consumable - Soda Ash			1.00	0.00		1.00	46.24	46.24
10/01N	17464	CS001	R8A	6	ST	Site travel - N/A			0.00	2.00		0.00	250.00	0.00
11/01D	17465	CS001	R8A	2	NQ	NQ core drilling	954.20	1,000.00	45.80	0.00		45.80	165.00	7,557.00
11/01D	17465	CS001	R8A	2	NQ	NQ core drilling	1,000.00	1,002.20	2.20	0.00		2.20	180.00	396.00

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Date Shft	Plod	Hole	Rig	Type	Product	From	To	TotClient	TotCoy.	Serial/CustReference	Qty	Rate	Extension	
11/01D	17465	CS001	R8A	4	DRI	Drilling Time		0.00	9.00		0.00	0.00	0.00	
11/01D	17465	CS001	R8A	4	PS	Inactive - Pre Starts		0.00	0.50		0.00	0.00	0.00	
11/01D	17465	CS001	R8A	5	BL	Consumable - Bit Lube		2.00	0.00		2.00	139.30	278.60	
11/01D	17465	CS001	R8A	5	CB	Chrome Barrel		48.00	0.00		48.00	3.00	144.00	
11/01D	17465	CS001	R8A	5	SA	Consumable - Soda Ash		1.00	0.00		1.00	46.24	46.24	
11/01D	17465	CS001	R8A	6	CO	Flush hole to remove excess cuttings		0.50	0.00		0.50	350.00	175.00	
11/01D	17465	CS001	R8A	6	ST	Site travel - N/A		0.00	2.00		0.00	250.00	0.00	
11/01N	17466	CS001	R8A	2	NQ	NQ core drilling	1,002.20	1,041.20	39.00	0.00		39.00	180.00	7,020.00
11/01N	17466	CS001	R8A	4	DRI	Drilling Time		0.00	7.50		0.00	0.00	0.00	
11/01N	17466	CS001	R8A	4	MT	Inactive - Maintenance		0.00	1.50		0.00	0.00	0.00	
11/01N	17466	CS001	R8A	4	PS	Inactive - Pre Starts		0.00	0.50		0.00	0.00	0.00	
11/01N	17466	CS001	R8A	5	BL	Consumable - Bit Lube		1.00	0.00		1.00	139.30	139.30	
11/01N	17466	CS001	R8A	5	CB	Chrome Barrel		39.00	0.00		39.00	3.00	117.00	
11/01N	17466	CS001	R8A	5	CR	Consumable - CR650		1.00	0.00		1.00	156.45	156.45	
11/01N	17466	CS001	R8A	6	SS	Survey shot/s (per shot)		1.00	0.00		1.00	95.00	95.00	
11/01N	17466	CS001	R8A	6	ST	Site travel - N/A		0.00	2.00		0.00	250.00	0.00	
12/01D	17467	CS001	R8A	2	NQ	NQ core drilling	1,041.20	1,074.20	33.00	0.00		33.00	180.00	5,940.00
12/01D	17467	CS001	R8A	4	DRI	Drilling Time		0.00	8.50		0.00	0.00	0.00	
12/01D	17467	CS001	R8A	4	PS	Inactive - Pre Starts		0.00	0.50		0.00	0.00	0.00	
12/01D	17467	CS001	R8A	5	BL	Consumable - Bit Lube		2.00	0.00		2.00	139.30	278.60	
12/01D	17467	CS001	R8A	5	CB	Chrome Barrel		33.00	0.00		33.00	3.00	99.00	
12/01D	17467	CS001	R8A	5	CR	Consumable - CR650		1.00	0.00		1.00	156.45	156.45	
12/01D	17467	CS001	R8A	6	CO	Flush hole to remove excess cuttings		0.50	0.00		0.50	350.00	175.00	
12/01D	17467	CS001	R8A	6	MM	Mixing muds		0.50	0.00		0.50	350.00	175.00	
12/01D	17467	CS001	R8A	6	ST	Site travel - N/A		0.00	2.00		0.00	250.00	0.00	
12/01N	17468	CS001	R8A	2	NQ	NQ core drilling	1,074.20	1,104.20	30.00	0.00		30.00	180.00	5,400.00
12/01N	17468	CS001	R8A	4	DRI	Drilling Time		0.00	9.00		0.00	0.00	0.00	
12/01N	17468	CS001	R8A	4	PS	Inactive - Pre Starts		0.00	0.50		0.00	0.00	0.00	
12/01N	17468	CS001	R8A	5	BL	Consumable - Bit Lube		1.00	0.00		1.00	139.30	139.30	
12/01N	17468	CS001	R8A	5	CB	Chrome Barrel		30.00	0.00		30.00	3.00	90.00	
12/01N	17468	CS001	R8A	6	CO	Flush hole		0.50	0.00		0.50	350.00	175.00	
12/01N	17468	CS001	R8A	6	ST	Site travel - N/A		0.00	2.00		0.00	250.00	0.00	
13/01D	17469	CS001	R8A	2	NQ	NQ core drilling	1,104.20	1,128.20	24.00	0.00		24.00	180.00	4,320.00
13/01D	17469	CS001	R8A	4	DRI	Drilling Time		0.00	7.50		0.00	0.00	0.00	
13/01D	17469	CS001	R8A	4	MT	Inactive - Maintenance		0.00	0.50		0.00	0.00	0.00	
13/01D	17469	CS001	R8A	4	PS	Inactive - Pre Starts		0.00	0.50		0.00	0.00	0.00	
13/01D	17469	CS001	R8A	5	BL	Consumable - Bit Lube		2.00	0.00		2.00	139.30	278.60	
13/01D	17469	CS001	R8A	5	CB	Chrome Barrel		24.00	0.00		24.00	3.00	72.00	
13/01D	17469	CS001	R8A	5	SA	Consumable - Soda Ash		1.00	0.00		1.00	46.24	46.24	
13/01D	17469	CS001	R8A	6	CO	Condition hole due ground condition		0.50	0.00		0.50	350.00	175.00	
13/01D	17469	CS001	R8A	6	MM	Mixing muds		0.50	0.00		0.50	350.00	175.00	

Proforma Invoices

as at 21/01/2013 3:12:41 PM

Date	Shft	Plod	Hole	Rig	Type	Product	From	To	TotClient	TotCoy.	Serial/CustReference	Qty	Rate	Extension
13/01D	17469	CS001	R8A	6	SS	Survey shot/s (per shot)			1.00	0.00		1.00	95.00	95.00
13/01D	17469	CS001	R8A	6	ST	Site travel - N/A			0.00	2.00		0.00	250.00	0.00
13/01N	17470	CS001	R8A	2	NQ	NQ core drilling	1,128.20	1,149.20	21.00	0.00		21.00	180.00	3,780.00
13/01N	17470	CS001	R8A	4	DRI	Drilling Time			0.00	9.00		0.00	0.00	0.00
13/01N	17470	CS001	R8A	4	PS	Inactive - Pre Starts			0.00	0.50		0.00	0.00	0.00
13/01N	17470	CS001	R8A	5	CB	Chrome Barrel			21.00	0.00		21.00	3.00	63.00
13/01N	17470	CS001	R8A	6	CO	Condition hole due ground condition			0.50	0.00		0.50	350.00	175.00
13/01N	17470	CS001	R8A	6	ST	Site travel - N/A			0.00	2.00		0.00	250.00	0.00
14/01D	17471	CS001	R8A	2	NQ	NQ core drilling	1,149.20	1,164.20	15.00	0.00		15.00	180.00	2,700.00
14/01D	17471	CS001	R8A	4	DRI	Drilling Time			0.00	7.00		0.00	0.00	0.00
14/01D	17471	CS001	R8A	4	PS	Inactive - Pre Starts			0.00	0.50		0.00	0.00	0.00
14/01D	17471	CS001	R8A	5	BL	Consumable - Bit Lube			1.00	0.00		1.00	139.30	139.30
14/01D	17471	CS001	R8A	5	CB	Chrome Barrel			15.00	0.00		15.00	3.00	45.00
14/01D	17471	CS001	R8A	5	CR	Consumable - CR650			1.00	0.00		1.00	156.45	156.45
14/01D	17471	CS001	R8A	6	CO	Condition hole due ground condition			1.00	0.00		1.00	350.00	350.00
14/01D	17471	CS001	R8A	6	SS	Survey shot/s (per shot)			1.00	0.00		1.00	95.00	95.00
14/01D	17471	CS001	R8A	6	ST	Site travel - N/A			0.00	2.00		0.00	250.00	0.00
14/01D	17471	CS001	R8A	6	SU	Start to pack up site			1.00	0.00		1.00	350.00	350.00
14/01N	17472	CS001	R8A	4	PS	Inactive - Pre Starts			0.00	0.50		0.00	0.00	0.00
14/01N	17472	CS001	R8A	6	MO	Move to next hole wait for surveyor			4.50	0.00		4.50	350.00	1,575.00
14/01N	17472	CS001	R8A	6	RT	Run / pull rods EOH			5.00	0.00		5.00	350.00	1,750.00
14/01N	17472	CS001	R8A	6	ST	Site travel - N/A			0.00	2.00		0.00	250.00	0.00
15/01D	17474	CS001	R8A	4	PS	Inactive - Pre Starts			0.00	0.50		0.00	0.00	0.00
15/01D	17474	CS001	R8A	6	MO	Move rig between holes wait surveyor			5.50	0.00		5.50	350.00	1,925.00
15/01D	17474	CS001	R8A	6	RT	HQ E.O.H rod pull			4.00	0.00		4.00	350.00	1,400.00
15/01D	17474	CS001	R8A	6	ST	Site travel - N/A			0.00	2.00		0.00	250.00	0.00
15/01N	17473	CS001	R8A	6	CAMD	Survey camera hire (per day)			15.00	0.00		15.00	110.00	1,650.00
15/01N	17473	CS001	R8A	6	ST	Site travel - N/A			0.00	2.00		0.00	250.00	0.00
15/01N	17473	CS001	R8A	6	SU	Move gear to next site			10.00	0.00		10.00	350.00	3,500.00

Total for Job 168 = \$137,577.67

Total for Rig R8A = \$137,577.67



Techdrill Mining Services Pty Ltd

56 131 658 216

33 Leewood Drive, Orange NSW 2800

Ph: 02 6361 7853 Fx: 02 6361 8076 E: lee-anne.weber@techdrill.com.au

Tax Invoice

Invoice No: 506

Invoice Date: 31/01/2013

Period From: 16/01/2013

To: 31/01/2013

Contract/Ref:

Job: 168

Rig: R8A

Page: 1

Customer: SA Ludi Pty Ltd
10/237 Wakefield Street
Adelaide SA 5000

CstRef-Hole	Product	From	To	Qty	per	Rate	Extension
CS001	PS	Inactive - Pre Starts		0.00	Hour	0.00	0.00
CS001	CEM	Mix/drill cement,cementing/grouting		6.00	Hour	350.00	2,100.00
CS001	MO	Move rig between holes		13.50	Hour	350.00	4,725.00
CS001	ST	Site travel		1.50	Hour	250.00	375.00
CS001	SU	Rig set up / pull down		12.00	Hour	350.00	4,200.00
CS001	WTC	Water cartage		8.00	Hour	140.00	1,120.00
CS002	HQ	HQ core drilling	20.00 200.00	180.00	Metres	135.00	24,300.00
CS002	HQ	HQ core drilling	200.00 400.00	200.00	Metres	145.00	29,000.00
CS002	HQ	HQ core drilling	400.00 594.40	194.40	Metres	155.00	30,132.00
CS002	BD	Fix water truck and get to site		0.00	Hour	0.00	0.00
CS002	BD	Inactive - Breakdown		0.00	Hour	0.00	0.00
CS002	BD	Rig inoperable due computer issues		0.00	Hour	0.00	0.00
CS002	DRI	Drilling Time		0.00	Hour	0.00	0.00
CS002	MT	Inactive - Maintenance		0.00	Hour	0.00	0.00
CS002	MT	Maintenance. Fix radiator hose		0.00	Hour	0.00	0.00
CS002	PS	Inactive - Pre Starts		0.00	Hour	0.00	0.00
CS002	WOW	Waiting on drilling water		8.00	Hour	250.00	2,000.00
CS002	WX	Shutdown for lightning		2.00	Hour	250.00	500.00
CS002	BL	Consumable - Bit Lube		15.00	Each	139.30	2,089.50
CS002	CB	Chrome Barrel		574.40	Metres	3.00	1,723.20
CS002	CR	Consumable - CR650		5.00	Each	156.45	782.25
CS002	RG	Consumable - Rod Grease		1.00	Each	199.94	199.94
CS002	CAMD	Survey camera hire (per day)		12.00	Day	110.00	1,320.00
CS002	CO	Condition hole due ground condition		1.00	Hour	350.00	350.00
CS002	ESR	End of shift rotation travel time		0.00	Hour	0.00	0.00
CS002	FI	Fishing downhole for equipment		0.00	Hour	350.00	0.00
CS002	MM	Mixing muds		6.00	Hour	350.00	2,100.00
CS002	OT	Unbog truck		0.00	Hour	1.00	0.00
CS002	RT	Run / pull rods		2.00	Hour	350.00	700.00
CS002	RT	Run / pull rods for bit change		2.00	Hour	350.00	700.00
CS002	SS	Survey shot/s (per shot)		6.00	Each	95.00	570.00
CS002	ST	Site travel		30.00	Hour	250.00	7,500.00
CS002	STB	Filling up sumps		4.50	Hour	250.00	1,125.00
CS002	SU	Set up plastic, line sumps		1.00	Hour	350.00	350.00
CS002	WTC	Water cartage		6.50	Hour	140.00	910.00

Sub-total: \$118,871.89

GST: \$11,887.19

Invoice total: \$130,759.08

Direct Deposit Details:

Bank: BSB: 083-144 A/C: 174627284

Acc Name: Techdrill Services

continued on page 2

CstRef-Hole	Product	From	To	Qty	per	Rate	Extension
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Invoice Summary

Invoice No:	Invoice Date:	Contract/Ref:	Drill Site(s):	Job:	Rig:
506	31/01/2013		Williams Creek William Creek	168	R8A
Product	Qty	per	Rate	Extension	
HQ HQ core drilling	180.00	Metres	135.00	24,300.00	
HQ HQ core drilling	200.00	Metres	145.00	29,000.00	
HQ HQ core drilling	194.40	Metres	155.00	30,132.00	
BD Fix water truck and get to site	0.00	Hour	0.00	0.00	
DRI Drilling Time	0.00	Hour	0.00	0.00	
MT Inactive - Maintenance	0.00	Hour	0.00	0.00	
PS Inactive - Pre Starts	0.00	Hour	0.00	0.00	
WOW Waiting on drilling water	8.00	Hour	250.00	2,000.00	
WX Shutdown for lightning	2.00	Hour	250.00	500.00	
BL Consumable - Bit Lube	15.00	Each	139.30	2,089.50	
CB Chrome Barrel	574.40	Metres	3.00	1,723.20	
CR Consumable - CR650	5.00	Each	156.45	782.25	
RG Consumable - Rod Grease	1.00	Each	199.94	199.94	
CAMD Survey camera hire (per day)	12.00	Day	110.00	1,320.00	
CEM Mix/drill	6.00	Hour	350.00	2,100.00	
CO Condition hole due ground	1.00	Hour	350.00	350.00	
MM Mixing muds	6.00	Hour	350.00	2,100.00	
MO Move rig between holes	13.50	Hour	350.00	4,725.00	
RT Run / pull rods	4.00	Hour	350.00	1,400.00	
SS Survey shot/s (per shot)	6.00	Each	95.00	570.00	
ST Site travel	31.50	Hour	250.00	7,875.00	
STB Filling up sumps	4.50	Hour	250.00	1,125.00	
SU Rig set up / pull down	13.00	Hour	350.00	4,550.00	
WTC Water cartage	14.50	Hour	140.00	2,030.00	
sub-Total:				118,871.89	
GST				11,887.19	
Invoice				\$130,759.08	

Direct Deposit Details:

Bank: BSB: 083-144 A/C: 174627284
Acc Name: Techdrill Services

Summary of All Invoices this run: as at 6/02/2013 1:23:43 PM

Inv. No.	Customer	Net	GST	Total
506	SA Ludi Pty Ltd	118,871.89	11,887.19	130,759.08
For Job=168, Rig=R8A, Hole=<ALL>		118,871.89	11,887.19	130,759.08

Direct Deposit Details: Bank: BSB: 083-144 A/C: 174627284 Acc Name: Techdrill Services
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Job: 168

Customer: LUDI SA Ludi Pty Ltd

Rig: R8A

Date Shft	Plod	Hole	Rig	Type	Product	From	To	TotClient	TotCoy.	Serial/CustReference	Qty	Rate	Extension
16/01D	17475	CS001	R8A	6	ST	Site travel		0.00	2.00		0.00	250.00	0.00
16/01D	17475	CS001	R8A	6	SU	Rig set up / pull down		10.00	0.00		10.00	350.00	3,500.00
16/01N	17476	CS001	R8A	4	PS	Inactive - Pre Starts		0.00	0.50		0.00	0.00	0.00
16/01N	17476	CS001	R8A	6	CEM	Mix/drill cement,cementing/grouting		6.00	0.00		6.00	350.00	2,100.00
16/01N	17476	CS001	R8A	6	MO	Move rig between holes		3.50	3.00		3.50	350.00	1,225.00
16/01N	17476	CS001	R8A	6	ST	Site travel		0.00	2.00		0.00	250.00	0.00
17/01D	17477	CS001	R8A	6	MO	Move rig between holes		10.00	0.00		10.00	350.00	3,500.00
17/01D	17477	CS001	R8A	6	SU	Rig set up / pull down		2.00	0.00		2.00	350.00	700.00
17/01N	17478	CS001	R8A	4	PS	Inactive - Pre Starts		0.00	0.50		0.00	0.00	0.00
17/01N	17478	CS001	R8A	6	ST	Site travel		1.50	2.00		1.50	250.00	375.00
17/01N	17478	CS001	R8A	6	WTC	Water cartage		8.00	0.00		8.00	140.00	1,120.00
18/01D	17479	CS002	R8A	2	HQ	HQ core drilling	20.00	44.20	24.20	0.00	24.20	135.00	3,267.00
18/01D	17479	CS002	R8A	4	DRI	Drilling Time		0.00	3.00		0.00	0.00	0.00
18/01D	17479	CS002	R8A	5	BL	Consumable - Bit Lube		1.00	0.00		1.00	139.30	139.30
18/01D	17479	CS002	R8A	5	CB	Chrome Barrel		24.20	0.00		24.20	3.00	72.60
18/01D	17479	CS002	R8A	5	CR	Consumable - CR650		1.00	0.00		1.00	156.45	156.45
18/01D	17479	CS002	R8A	6	CO	Condition hole due ground condition		1.00	0.00		1.00	350.00	350.00
18/01D	17479	CS002	R8A	6	MM	Mixing muds		0.50	0.00		0.50	350.00	175.00
18/01D	17479	CS002	R8A	6	RT	Run / pull rods		1.00	0.00		1.00	350.00	350.00
18/01D	17479	CS002	R8A	6	ST	Site travel		1.50	2.00		1.50	250.00	375.00
18/01D	17479	CS002	R8A	6	SU	Set up plastic, line sumps		1.00	0.00		1.00	350.00	350.00
18/01D	17479	CS002	R8A	6	WTC	Water cartage		2.00	0.00		2.00	140.00	280.00
18/01N	17480	CS002	R8A	2	HQ	HQ core drilling	44.20	48.40	4.20	0.00	4.20	135.00	567.00
18/01N	17480	CS002	R8A	4	DRI	Drilling Time		0.00	1.00		0.00	0.00	0.00
18/01N	17480	CS002	R8A	4	MT	Inactive - Maintenance		0.00	2.00		0.00	0.00	0.00
18/01N	17480	CS002	R8A	4	PS	Inactive - Pre Starts		0.00	0.50		0.00	0.00	0.00
18/01N	17480	CS002	R8A	4	WX	Shutdown for lightning		2.00	0.00		2.00	250.00	500.00
18/01N	17480	CS002	R8A	5	BL	Consumable - Bit Lube		1.00	0.00		1.00	139.30	139.30
18/01N	17480	CS002	R8A	5	CB	Chrome Barrel		4.20	0.00		4.20	3.00	12.60
18/01N	17480	CS002	R8A	5	CR	Consumable - CR650		1.00	0.00		1.00	156.45	156.45
18/01N	17480	CS002	R8A	5	RG	Consumable - Rod Grease		1.00	0.00		1.00	199.94	199.94
18/01N	17480	CS002	R8A	6	RT	Run / pull rods		1.00	0.00		1.00	350.00	350.00
18/01N	17480	CS002	R8A	6	ST	Site travel		1.50	2.00		1.50	250.00	375.00

Proforma Invoices

as at 6/02/2013 1:23:44 PM

Date Shft	Plod	Hole	Rig	Type	Product	From	To	TotClient	TotCoy.	Serial/CustReference	Qty	Rate	Extension
18/01N	17480	CS002	R8A	6	WTC	Water cartage			1.00	0.00	1.00	140.00	140.00
19/01D	17481	CS002	R8A	2	HQ	HQ core drilling	48.40	84.40	36.00	0.00	36.00	135.00	4,860.00
19/01D	17481	CS002	R8A	4	BD	Inactive - Breakdown			0.00	0.50	0.00	0.00	0.00
19/01D	17481	CS002	R8A	4	DRI	Drilling Time			0.00	7.00	0.00	0.00	0.00
19/01D	17481	CS002	R8A	4	PS	Inactive - Pre Starts			0.00	0.50	0.00	0.00	0.00
19/01D	17481	CS002	R8A	5	CB	Chrome Barrel			36.00	0.00	36.00	3.00	108.00
19/01D	17481	CS002	R8A	6	MM	Mixing muds			0.50	0.00	0.50	350.00	175.00
19/01D	17481	CS002	R8A	6	ST	Site travel			1.50	2.00	1.50	250.00	375.00
19/01N	17482	CS002	R8A	2	HQ	HQ core drilling	84.40	120.40	36.00	0.00	36.00	135.00	4,860.00
19/01N	17482	CS002	R8A	4	DRI	Drilling Time			0.00	6.00	0.00	0.00	0.00
19/01N	17482	CS002	R8A	5	BL	Consumable - Bit Lube			1.00	0.00	1.00	139.30	139.30
19/01N	17482	CS002	R8A	5	CB	Chrome Barrel			36.00	0.00	36.00	3.00	108.00
19/01N	17482	CS002	R8A	6	SS	Survey shot/s (per shot)			1.00	0.00	1.00	95.00	95.00
19/01N	17482	CS002	R8A	6	ST	Site travel			1.50	2.00	1.50	250.00	375.00
19/01N	17482	CS002	R8A	6	WTC	Water cartage			1.50	0.00	1.50	140.00	210.00
20/01D	17483	CS002	R8A	2	HQ	HQ core drilling	120.40	156.40	36.00	0.00	36.00	135.00	4,860.00
20/01D	17483	CS002	R8A	4	DRI	Drilling Time			0.00	7.00	0.00	0.00	0.00
20/01D	17483	CS002	R8A	4	MT	Maintenance. Fix radiator hose			0.00	0.50	0.00	0.00	0.00
20/01D	17483	CS002	R8A	4	PS	Inactive - Pre Starts			0.00	0.50	0.00	0.00	0.00
20/01D	17483	CS002	R8A	5	CB	Chrome Barrel			36.00	0.00	36.00	3.00	108.00
20/01D	17483	CS002	R8A	6	MM	Mixing muds			0.50	0.00	0.50	350.00	175.00
20/01D	17483	CS002	R8A	6	ST	Site travel			1.50	2.00	1.50	250.00	375.00
20/01N	17485	CS002	R8A	2	HQ	HQ core drilling	156.40	162.40	6.00	0.00	6.00	135.00	810.00
20/01N	17485	CS002	R8A	4	DRI	Drilling Time			0.00	1.00	0.00	0.00	0.00
20/01N	17485	CS002	R8A	4	PS	Inactive - Pre Starts			0.00	0.50	0.00	0.00	0.00
20/01N	17485	CS002	R8A	5	CB	Chrome Barrel			6.00	0.00	6.00	3.00	18.00
20/01N	17485	CS002	R8A	6	OT	Unbog truck			0.00	5.00	0.00	1.00	0.00
20/01N	17485	CS002	R8A	6	ST	Site travel			1.50	2.00	1.50	250.00	375.00
20/01N	17485	CS002	R8A	6	WTC	Water cartage			2.00	0.00	2.00	140.00	280.00
21/01D	17484	CS002	R8A	2	HQ	HQ core drilling	162.40	198.40	36.00	0.00	36.00	135.00	4,860.00
21/01D	17484	CS002	R8A	4	DRI	Drilling Time			0.00	5.50	0.00	0.00	0.00
21/01D	17484	CS002	R8A	4	PS	Inactive - Pre Starts			0.00	0.50	0.00	0.00	0.00
21/01D	17484	CS002	R8A	5	CB	Chrome Barrel			36.00	0.00	36.00	3.00	108.00
21/01D	17484	CS002	R8A	5	CR	Consumable - CR650			1.00	0.00	1.00	156.45	156.45
21/01D	17484	CS002	R8A	6	MM	Mixing muds			0.50	0.00	0.50	350.00	175.00
21/01D	17484	CS002	R8A	6	RT	Run / pull rods for bit change			2.00	0.00	2.00	350.00	700.00
21/01D	17484	CS002	R8A	6	ST	Site travel			1.50	2.00	1.50	250.00	375.00
21/01N	17486	CS002	R8A	4	PS	Inactive - Pre Starts			0.00	0.50	0.00	0.00	0.00
21/01N	17486	CS002	R8A	4	WOW	Waiting on drilling water			8.00	0.00	8.00	250.00	2,000.00
21/01N	17486	CS002	R8A	6	ST	Site travel			1.50	2.00	1.50	250.00	375.00
22/01D	17487	CS002	R8A	2	HQ	HQ core drilling	198.40	200.00	1.60	0.00	1.60	135.00	216.00

Proforma Invoices

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Date Shft	Plod	Hole	Rig	Type	Product	From	To	TotClient	TotCoy.	Serial/CustReference	Qty	Rate	Extension	
22/01D	17487	CS002	R8A	2	HQ	HQ core drilling	200.00	222.40	22.40	0.00		22.40	145.00	3,248.00
22/01D	17487	CS002	R8A	4	DRI	Drilling Time			0.00	3.00		0.00	0.00	0.00
22/01D	17487	CS002	R8A	4	PS	Inactive - Pre Starts			0.00	0.50		0.00	0.00	0.00
22/01D	17487	CS002	R8A	5	CB	Chrome Barrel			24.00	0.00		24.00	3.00	72.00
22/01D	17487	CS002	R8A	6	MM	Mixing muds			0.50	0.00		0.50	350.00	175.00
22/01D	17487	CS002	R8A	6	ST	Site travel			1.50	2.00		1.50	250.00	375.00
22/01D	17487	CS002	R8A	6	STB	Filling up sumps			4.50	0.00		4.50	250.00	1,125.00
22/01N	17488	CS002	R8A	2	HQ	HQ core drilling	222.40	264.40	42.00	0.00		42.00	145.00	6,090.00
22/01N	17488	CS002	R8A	4	DRI	Drilling Time			0.00	7.50		0.00	0.00	0.00
22/01N	17488	CS002	R8A	4	PS	Inactive - Pre Starts			0.00	0.50		0.00	0.00	0.00
22/01N	17488	CS002	R8A	5	BL	Consumable - Bit Lube			1.00	0.00		1.00	139.30	139.30
22/01N	17488	CS002	R8A	5	CB	Chrome Barrel			42.00	0.00		42.00	3.00	126.00
22/01N	17488	CS002	R8A	5	CR	Consumable - CR650			1.00	0.00		1.00	156.45	156.45
22/01N	17488	CS002	R8A	6	SS	Survey shot/s (per shot)			1.00	0.00		1.00	95.00	95.00
22/01N	17488	CS002	R8A	6	ST	Site travel			1.50	2.00		1.50	250.00	375.00
23/01D	17489	CS002	R8A	2	HQ	HQ core drilling	264.40	306.40	42.00	0.00		42.00	145.00	6,090.00
23/01D	17489	CS002	R8A	4	DRI	Drilling Time			0.00	7.50		0.00	0.00	0.00
23/01D	17489	CS002	R8A	4	PS	Inactive - Pre Starts			0.00	0.50		0.00	0.00	0.00
23/01D	17489	CS002	R8A	5	CB	Chrome Barrel			42.00	0.00		42.00	3.00	126.00
23/01D	17489	CS002	R8A	6	MM	Mixing muds			0.50	0.00		0.50	350.00	175.00
23/01D	17489	CS002	R8A	6	ST	Site travel			1.50	2.00		1.50	250.00	375.00
23/01N	17490	CS002	R8A	2	HQ	HQ core drilling	306.40	330.40	24.00	0.00		24.00	145.00	3,480.00
23/01N	17490	CS002	R8A	4	DRI	Drilling Time			0.00	3.00		0.00	0.00	0.00
23/01N	17490	CS002	R8A	4	PS	Inactive - Pre Starts			0.00	0.50		0.00	0.00	0.00
23/01N	17490	CS002	R8A	5	CB	Chrome Barrel			24.00	0.00		24.00	3.00	72.00
23/01N	17490	CS002	R8A	6	ESR	End of shift rotation travel time			0.00	5.00		0.00	0.00	0.00
23/01N	17490	CS002	R8A	6	ST	Site travel			1.50	2.00		1.50	250.00	375.00
24/01D	17491	CS002	R8A	2	HQ	HQ core drilling	330.40	342.40	12.00	0.00		12.00	145.00	1,740.00
24/01D	17491	CS002	R8A	4	BD	Inactive - Breakdown			0.00	2.50		0.00	0.00	0.00
24/01D	17491	CS002	R8A	4	DRI	Drilling Time			0.00	4.50		0.00	0.00	0.00
24/01D	17491	CS002	R8A	4	PS	Inactive - Pre Starts			0.00	0.50		0.00	0.00	0.00
24/01D	17491	CS002	R8A	5	BL	Consumable - Bit Lube			2.00	0.00		2.00	139.30	278.60
24/01D	17491	CS002	R8A	5	CB	Chrome Barrel			12.00	0.00		12.00	3.00	36.00
24/01D	17491	CS002	R8A	6	FI	Fishing downhole for equipment			0.00	1.00		0.00	350.00	0.00
24/01D	17491	CS002	R8A	6	ST	Site travel			1.50	2.00		1.50	250.00	375.00
24/01N	17492	CS002	R8A	2	HQ	HQ core drilling	342.40	386.50	44.10	0.00		44.10	145.00	6,394.50
24/01N	17492	CS002	R8A	4	DRI	Drilling Time			0.00	7.00		0.00	0.00	0.00
24/01N	17492	CS002	R8A	4	PS	Inactive - Pre Starts			0.00	0.50		0.00	0.00	0.00
24/01N	17492	CS002	R8A	5	BL	Consumable - Bit Lube			1.00	0.00		1.00	139.30	139.30
24/01N	17492	CS002	R8A	5	CB	Chrome Barrel			44.10	0.00		44.10	3.00	132.30
24/01N	17492	CS002	R8A	6	MM	Mixing muds			0.50	0.00		0.50	350.00	175.00

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Date Shft	Plod	Hole	Rig	Type	Product	From	To	TotClient	TotCoy.	Serial/CustReference	Qty	Rate	Extension
24/01N	17492	CS002	R8A	6	SS	Survey shot/s (per shot)		1.00	0.00		1.00	95.00	95.00
24/01N	17492	CS002	R8A	6	ST	Site travel		1.50	2.00		1.50	250.00	375.00
25/01D	17493	CS002	R8A	2	HQ	HQ core drilling	386.50	400.00	13.50	0.00	13.50	145.00	1,957.50
25/01D	17493	CS002	R8A	2	HQ	HQ core drilling	400.00	423.40	23.40	0.00	23.40	155.00	3,627.00
25/01D	17493	CS002	R8A	4	DRI	Drilling Time		0.00	7.50		0.00	0.00	0.00
25/01D	17493	CS002	R8A	4	PS	Inactive - Pre Starts		0.00	0.50		0.00	0.00	0.00
25/01D	17493	CS002	R8A	5	BL	Consumable - Bit Lube		2.00	0.00		2.00	139.30	278.60
25/01D	17493	CS002	R8A	5	CB	Chrome Barrel		36.90	0.00		36.90	3.00	110.70
25/01D	17493	CS002	R8A	6	MM	Mixing muds		0.50	0.00		0.50	350.00	175.00
25/01D	17493	CS002	R8A	6	ST	Site travel		1.50	2.00		1.50	250.00	375.00
25/01N	17494	CS002	R8A	2	HQ	HQ core drilling	423.40	462.40	39.00	0.00	39.00	155.00	6,045.00
25/01N	17494	CS002	R8A	4	DRI	Drilling Time		0.00	7.00		0.00	0.00	0.00
25/01N	17494	CS002	R8A	4	PS	Inactive - Pre Starts		0.00	0.50		0.00	0.00	0.00
25/01N	17494	CS002	R8A	5	BL	Consumable - Bit Lube		1.00	0.00		1.00	139.30	139.30
25/01N	17494	CS002	R8A	5	CB	Chrome Barrel		39.00	0.00		39.00	3.00	117.00
25/01N	17494	CS002	R8A	6	MM	Mixing muds		0.50	0.00		0.50	350.00	175.00
25/01N	17494	CS002	R8A	6	SS	Survey shot/s (per shot)		1.00	0.00		1.00	95.00	95.00
25/01N	17494	CS002	R8A	6	ST	Site travel		1.50	2.00		1.50	250.00	375.00
26/01D	17495	CS002	R8A	2	HQ	HQ core drilling	462.40	492.40	30.00	0.00	30.00	155.00	4,650.00
26/01D	17495	CS002	R8A	4	BD	Fix water truck and get to site		0.00	2.00		0.00	0.00	0.00
26/01D	17495	CS002	R8A	4	DRI	Drilling Time		0.00	5.50		0.00	0.00	0.00
26/01D	17495	CS002	R8A	4	PS	Inactive - Pre Starts		0.00	0.50		0.00	0.00	0.00
26/01D	17495	CS002	R8A	5	BL	Consumable - Bit Lube		2.00	0.00		2.00	139.30	278.60
26/01D	17495	CS002	R8A	5	CB	Chrome Barrel		30.00	0.00		30.00	3.00	90.00
26/01D	17495	CS002	R8A	6	MM	Mixing muds		0.50	0.00		0.50	350.00	175.00
26/01D	17495	CS002	R8A	6	ST	Site travel		1.50	2.00		1.50	250.00	375.00
26/01N	17496	CS002	R8A	2	HQ	HQ core drilling	492.40	531.40	39.00	0.00	39.00	155.00	6,045.00
26/01N	17496	CS002	R8A	4	DRI	Drilling Time		0.00	7.00		0.00	0.00	0.00
26/01N	17496	CS002	R8A	4	PS	Inactive - Pre Starts		0.00	0.50		0.00	0.00	0.00
26/01N	17496	CS002	R8A	5	BL	Consumable - Bit Lube		1.00	0.00		1.00	139.30	139.30
26/01N	17496	CS002	R8A	5	CB	Chrome Barrel		39.00	0.00		39.00	3.00	117.00
26/01N	17496	CS002	R8A	6	MM	Mixing muds		0.50	0.00		0.50	350.00	175.00
26/01N	17496	CS002	R8A	6	SS	Survey shot/s (per shot)		1.00	0.00		1.00	95.00	95.00
26/01N	17496	CS002	R8A	6	ST	Site travel		1.50	2.00		1.50	250.00	375.00
27/01D	17497	CS002	R8A	4	BD	Rig inoperable due computer issues		0.00	8.00		0.00	0.00	0.00
27/01D	17497	CS002	R8A	4	PS	Inactive - Pre Starts		0.00	0.50		0.00	0.00	0.00
27/01D	17497	CS002	R8A	6	ST	Site travel		0.00	3.50		0.00	250.00	0.00
27/01N	17498	CS002	R8A	4	BD	Inactive - Breakdown		0.00	8.00		0.00	0.00	0.00
27/01N	17498	CS002	R8A	4	PS	Inactive - Pre Starts		0.00	0.50		0.00	0.00	0.00
27/01N	17498	CS002	R8A	6	ST	Site travel		0.00	3.50		0.00	250.00	0.00
28/01D	17499	CS002	R8A	4	BD	Inactive - Breakdown		0.00	12.00		0.00	0.00	0.00

Proforma Invoices

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Date	Shft	Plod	Hole	Rig	Type	Product	From	To	TotClient	TotCoy.	Serial/CustReference	Qty	Rate	Extension
28/01N	17500	CS002	R8A	4	BD	Inactive - Breakdown			0.00	12.00		0.00	0.00	0.00
29/01D	9103	CS002	R8A	4	BD	Inactive - Breakdown			0.00	12.00		0.00	0.00	0.00
29/01N	17402	CS002	R8A	4	BD	Inactive - Breakdown			0.00	12.00		0.00	0.00	0.00
30/01D	17401	CS002	R8A	4	BD	Inactive - Breakdown			0.00	8.00		0.00	0.00	0.00
30/01D	17401	CS002	R8A	4	PS	Inactive - Pre Starts			0.00	0.50		0.00	0.00	0.00
30/01D	17401	CS002	R8A	6	ST	Site travel			0.00	3.50		0.00	250.00	0.00
30/01N	17403	CS002	R8A	4	BD	Inactive - Breakdown			0.00	12.00		0.00	0.00	0.00
31/01D	17404	CS002	R8A	2	HQ	HQ core drilling	531.40	564.40	33.00	0.00		33.00	155.00	5,115.00
31/01D	17404	CS002	R8A	4	DRI	Drilling Time			0.00	7.00		0.00	0.00	0.00
31/01D	17404	CS002	R8A	4	MT	Inactive - Maintenance			0.00	1.00		0.00	0.00	0.00
31/01D	17404	CS002	R8A	4	PS	Inactive - Pre Starts			0.00	0.50		0.00	0.00	0.00
31/01D	17404	CS002	R8A	5	BL	Consumable - Bit Lube			2.00	0.00		2.00	139.30	278.60
31/01D	17404	CS002	R8A	5	CB	Chrome Barrel			33.00	0.00		33.00	3.00	99.00
31/01D	17404	CS002	R8A	5	CR	Consumable - CR650			1.00	0.00		1.00	156.45	156.45
31/01D	17404	CS002	R8A	6	ST	Site travel			1.50	2.00		1.50	250.00	375.00
31/01N	17405	CS002	R8A	2	HQ	HQ core drilling	564.40	594.40	30.00	0.00		30.00	155.00	4,650.00
31/01N	17405	CS002	R8A	4	DRI	Drilling Time			0.00	7.00		0.00	0.00	0.00
31/01N	17405	CS002	R8A	4	PS	Inactive - Pre Starts			0.00	0.50		0.00	0.00	0.00
31/01N	17405	CS002	R8A	5	CB	Chrome Barrel			30.00	0.00		30.00	3.00	90.00
31/01N	17405	CS002	R8A	6	CAMD	Survey camera hire (per day)			12.00	4.00		12.00	110.00	1,320.00
31/01N	17405	CS002	R8A	6	MM	Mixing muds			0.50	0.00		0.50	350.00	175.00
31/01N	17405	CS002	R8A	6	SS	Survey shot/s (per shot)			1.00	0.00		1.00	95.00	95.00
31/01N	17405	CS002	R8A	6	ST	Site travel			1.50	2.00		1.50	250.00	375.00

Total for Job 168 = \$118,871.89

Total for Rig R8A = \$118,871.89



Techdrill Mining Services Pty Ltd

56 131 658 216

33 Leewood Drive, Orange NSW 2800

Ph: 02 6361 7853 Fx: 02 6361 8076 E: lee-anne.weber@techdrill.com.au

Tax Invoice

Invoice No: 508

Invoice Date: 15/02/2013

Period From: 1/02/2013

To: 15/02/2013

Customer: SA Ludi Pty Ltd
10/237 Wakefield Street
Adelaide SA 5000

Contract/Ref:

Job: 168

Rig: R8A

Page: 1

CstRef-Hole	Product	From	To	Qty	per	Rate	Extension
CS001	GRT	Cement for grouting (Hole CS001)		1.00	Unit	2,265.60	2,265.60
CS002	HQ	594.40	600.00	5.60	Metres	155.00	868.00
CS002	HQ	600.00	726.20	126.20	Metres	165.00	20,823.00
CS002	NQ	726.20	800.00	73.80	Metres	155.00	11,439.00
CS002	NQ	800.00	810.40	10.40	Metres	165.00	1,716.00
CS002	NQ	814.60	1,000.00	185.40	Metres	165.00	30,591.00
CS002	NQ	1,000.00	1,143.20	143.20	Metres	180.00	25,776.00
CS002	NQ	810.40	814.60	4.20	Metres	165.00	693.00
CS002	NQ	1,143.20	1,167.20	24.00	Metres	180.00	4,320.00
CS002	BD	Inactive - Breakdown		0.00	Hour	0.00	0.00
CS002	DRI	Drilling Time		0.00	Hour	0.00	0.00
CS002	MT	Inactive - Maintenance		0.00	Hour	0.00	0.00
CS002	MT	Inactive - Maintenance for LV		0.00	Hour	0.00	0.00
CS002	PS	Inactive - Pre Starts		0.00	Hour	0.00	0.00
CS002	WX	Shut down for lightning		2.00	Hour	250.00	500.00
CS002	BL	Consumable - Bit Lube		16.00	Each	139.30	2,228.80
CS002	CB	Chrome Barrel		572.80	Metres	3.00	1,718.40
CS002	CR	Consumable - CR650		3.00	Each	156.45	469.35
CS002	DAR	Consumable - Darby Plug		2.00	Each	30.00	60.00
CS002	GRT	Cement for grouting (Hole CS002)		1.00	Unit	2,265.60	2,265.60
CS002	RG	Consumable - Rod Grease		1.00	Each	199.94	199.94
CS002	VAN	Consumables - Van Ruth Plug		1.00	Unit	400.00	400.00
CS002	CAMD	Survey camera hire (per day)		13.00	Day	110.00	1,430.00
CS002	CD	Client delay. Logging NQ part of hole		10.50	Hour	250.00	2,625.00
CS002	CD	Logging HQ part of hole		12.00	Hour	250.00	3,000.00
CS002	CEM	Mix/drill cement, cementing/grouting		6.50	Hour	350.00	2,275.00
CS002	CO	Condition hole due ground condition		5.00	Hour	350.00	1,750.00
CS002	CO	Flush hole to remove excess cuttings		0.50	Hour	350.00	175.00
CS002	DEMOB	Demobilisation from Robxy Downs		1.00	Unit	6,000.00	6,000.00
CS002	ESR	End of shift rotation travel time		0.00	Hour	0.00	0.00
CS002	FI	Free HQ casing		1.00	Hour	350.00	350.00
CS002	MM	Mixing muds		1.50	Hour	350.00	525.00
CS002	MO	Move equipment back to bore		1.50	Hour	350.00	525.00
CS002	RT	(HR) Run / pull rods		3.00	Hour	350.00	1,050.00
CS002	RT	Pull HQ casing		4.00	Hour	350.00	1,400.00
CS002	RT	Pull HQ rods & case off		7.50	Hour	350.00	2,625.00
CS002	RT	Pull rods to check bit		3.00	Hour	350.00	1,050.00
CS002	RT	Run NQ in		5.00	Hour	350.00	1,750.00
CS002	RT	Run in NQ rods		4.00	Hour	350.00	1,400.00
CS002	SS	Survey shot/s (per shot)		2.00	Each	95.00	190.00
CS002	ST	Site travel		34.50	Hour	250.00	8,625.00
CS002	STB	Load truck ready for demob		6.00	Hour	250.00	1,500.00
CS002	STB	Offsider unfit to work		0.00	Hour	250.00	0.00
CS002	SU	Rig down, pack up and prep for move		2.00	Hour	350.00	700.00

Direct Deposit Details:

Bank: BSB: 083-144 A/C: 174627284

Acc Name: Techdrill Services

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CstRef-Hole	Product	From	To	Qty	per	Rate	Extension
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Sub-total: \$145,278.69
 GST: \$14,527.87
 Invoice total: \$159,806.56

Invoice Summary

Invoice No:	Invoice Date:	Contract/Ref:	Job:	Rig:
508	15/02/2013	--	168	R8A
Purchase Ord:	Approval No:	Drill Site(s):	Ref-1:	Ref-2:
--	--	William Creek	--	--
Product	Qty	per	Rate	Extension
HQ HQ core drilling	5.60	Metres	155.00	868.00
HQ HQ core drilling	126.20	Metres	165.00	20,823.00
NQ NQ core drilling	73.80	Metres	155.00	11,439.00
NQ NQ core drilling	200.00	Metres	165.00	33,000.00
NQ NQ core drilling	167.20	Metres	180.00	30,096.00
BD Inactive - Breakdown	0.00	Hour	0.00	0.00
DRI Drilling Time	0.00	Hour	0.00	0.00
MT Inactive - Maintenance	0.00	Hour	0.00	0.00
PS Inactive - Pre Starts	0.00	Hour	0.00	0.00
WX Shut down for lightning	2.00	Hour	250.00	500.00
BL Consumable - Bit Lube	16.00	Each	139.30	2,228.80
CB Chrome Barrel	572.80	Metres	3.00	1,718.40
CR Consumable - CR650	3.00	Each	156.45	469.35
DAR Consumable - Darby Plug	2.00	Each	30.00	60.00
GRT Cement for grouting (Hole	2.00	Unit	2,265.60	4,531.20
RG Consumable - Rod Grease	1.00	Each	199.94	199.94
VAN Consumables - Van Ruth Plug	1.00	Unit	400.00	400.00
CAMD Survey camera hire (per day)	13.00	Day	110.00	1,430.00
CD Client delay. Logging NQ part	22.50	Hour	250.00	5,625.00
CEM Mix/drill	6.50	Hour	350.00	2,275.00
CO Condition hole due ground	5.50	Hour	350.00	1,925.00
DEMOB Demobilisation from Robxy	1.00	Unit	6,000.00	6,000.00
FI Free HQ casing	1.00	Hour	350.00	350.00
MM Mixing muds	1.50	Hour	350.00	525.00
MO Move equipment back to bore	1.50	Hour	350.00	525.00
RT (HR) Run / pull rods	26.50	Hour	350.00	9,275.00
SS Survey shot/s (per shot)	2.00	Each	95.00	190.00
ST Site travel	34.50	Hour	250.00	8,625.00
STB Load truck ready for demob	6.00	Hour	250.00	1,500.00
SU Rig down, pack up and prep for	2.00	Hour	350.00	700.00
			sub-Total:	145,278.69
			GST	14,527.87
			Invoice	\$159,806.56

Direct Deposit Details:
 Bank: BSB: 083-144 A/C: 174627284
 Acc Name: Techdrill Services

Job: 168

Customer: LUDI SA Ludi Pty Ltd

Rig: R8A

Date Shft	Plod	Hole	Rig	Type	Product	From	To	TotClient	TotCoy.	Serial/CustReference	Qty	Rate	Extension	
01/02D	17406	CS002	R8A	2	HQ	HQ core drilling	594.40	600.00	5.60	0.00		5.60	155.00	868.00
01/02D	17406	CS002	R8A	2	HQ	HQ core drilling	600.00	642.40	42.40	0.00		42.40	165.00	6,996.00
01/02D	17406	CS002	R8A	4	DRI	Drilling Time			0.00	7.50		0.00	0.00	0.00
01/02D	17406	CS002	R8A	4	PS	Inactive - Pre Starts			0.00	0.50		0.00	0.00	0.00
01/02D	17406	CS002	R8A	5	BL	Consumable - Bit Lube			1.00	0.00		1.00	139.30	139.30
01/02D	17406	CS002	R8A	5	CB	Chrome Barrel			48.00	0.00		48.00	3.00	144.00
01/02D	17406	CS002	R8A	6	CO	Flush hole to remove excess cuttings			0.50	0.00		0.50	350.00	175.00
01/02D	17406	CS002	R8A	6	ST	Site travel			1.50	2.00		1.50	250.00	375.00
01/02N	17407	CS002	R8A	2	HQ	HQ core drilling	642.40	690.40	48.00	0.00		48.00	165.00	7,920.00
01/02N	17407	CS002	R8A	4	DRI	Drilling Time			0.00	7.50		0.00	0.00	0.00
01/02N	17407	CS002	R8A	4	PS	Inactive - Pre Starts			0.00	0.50		0.00	0.00	0.00
01/02N	17407	CS002	R8A	5	BL	Consumable - Bit Lube			2.00	0.00		2.00	139.30	278.60
01/02N	17407	CS002	R8A	5	CB	Chrome Barrel			48.00	0.00		48.00	3.00	144.00
01/02N	17407	CS002	R8A	6	CO	Condition hole due ground condition			0.50	0.00		0.50	350.00	175.00
01/02N	17407	CS002	R8A	6	ST	Site travel			1.50	2.00		1.50	250.00	375.00
02/02D	17408	CS002	R8A	2	HQ	HQ core drilling	690.40	719.50	29.10	0.00		29.10	165.00	4,801.50
02/02D	17408	CS002	R8A	4	DRI	Drilling Time			0.00	4.00		0.00	0.00	0.00
02/02D	17408	CS002	R8A	4	PS	Inactive - Pre Starts			0.00	0.50		0.00	0.00	0.00
02/02D	17408	CS002	R8A	5	CB	Chrome Barrel			29.10	0.00		29.10	3.00	87.30
02/02D	17408	CS002	R8A	6	CO	Condition hole due ground condition			1.00	0.00		1.00	350.00	350.00
02/02D	17408	CS002	R8A	6	RT	(HR) Run / pull rods			3.00	0.00		3.00	350.00	1,050.00
02/02D	17408	CS002	R8A	6	ST	Site travel			1.50	2.00		1.50	250.00	375.00
02/02N	17409	CS002	R8A	6	CO	Condition hole due ground condition			1.00	0.00		1.00	350.00	350.00
02/02N	17409	CS002	R8A	6	RT	Pull HQ rods & case off			7.50	0.00		7.50	350.00	2,625.00
02/02N	17409	CS002	R8A	6	ST	Site travel			1.50	2.00		1.50	250.00	375.00
03/02D	17410	CS002	R8A	2	HQ	HQ core drilling	719.50	726.20	6.70	0.00		6.70	165.00	1,105.50
03/02D	17410	CS002	R8A	4	BD	Inactive - Breakdown			0.00	1.00		0.00	0.00	0.00
03/02D	17410	CS002	R8A	4	DRI	Drilling Time			0.00	2.00		0.00	0.00	0.00
03/02D	17410	CS002	R8A	4	PS	Inactive - Pre Starts			0.00	0.50		0.00	0.00	0.00
03/02D	17410	CS002	R8A	5	BL	Consumable - Bit Lube			2.00	0.00		2.00	139.30	278.60
03/02D	17410	CS002	R8A	5	CB	Chrome Barrel			6.70	0.00		6.70	3.00	20.10
03/02D	17410	CS002	R8A	5	RG	Consumable - Rod Grease			1.00	0.00		1.00	199.94	199.94
03/02D	17410	CS002	R8A	6	CO	Condition hole due ground condition			1.00	0.00		1.00	350.00	350.00

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Date Shft	Plod	Hole	Rig	Type	Product	From	To	TotClient	TotCoy.	Serial/CustReference	Qty	Rate	Extension	
03/02D	17410	CS002	R8A	6	RT	Run in NQ rods			4.00	0.00		4.00	350.00	1,400.00
03/02D	17410	CS002	R8A	6	ST	Site travel			1.50	2.00		1.50	250.00	375.00
03/02N	17411	CS002	R8A	2	NQ	NQ core drilling	726.20	768.20	42.00	0.00		42.00	155.00	6,510.00
03/02N	17411	CS002	R8A	4	DRI	Drilling Time			0.00	8.00		0.00	0.00	0.00
03/02N	17411	CS002	R8A	4	PS	Inactive - Pre Starts			0.00	0.50		0.00	0.00	0.00
03/02N	17411	CS002	R8A	5	BL	Consumable - Bit Lube			1.00	0.00		1.00	139.30	139.30
03/02N	17411	CS002	R8A	5	CB	Chrome Barrel			42.00	0.00		42.00	3.00	126.00
03/02N	17411	CS002	R8A	6	ST	Site travel			1.50	2.00		1.50	250.00	375.00
04/02D	17412	CS002	R8A	2	NQ	NQ core drilling	768.20	800.00	31.80	0.00		31.80	155.00	4,929.00
04/02D	17412	CS002	R8A	2	NQ	NQ core drilling	800.00	810.40	10.40	0.00		10.40	165.00	1,716.00
04/02D	17412	CS002	R8A	4	DRI	Drilling Time			0.00	8.00		0.00	0.00	0.00
04/02D	17412	CS002	R8A	4	PS	Inactive - Pre Starts			0.00	0.50		0.00	0.00	0.00
04/02D	17412	CS002	R8A	5	BL	Consumable - Bit Lube			2.00	0.00		2.00	139.30	278.60
04/02D	17412	CS002	R8A	5	CB	Chrome Barrel			42.20	0.00		42.20	3.00	126.60
04/02D	17412	CS002	R8A	6	ST	Site travel			1.50	2.00		1.50	250.00	375.00
04/02N	17413	CS002	R8A	2	NQ	NQ core drilling (1.2M/HR)	810.40	814.60	4.20	0.00		4.20	165.00	693.00
04/02N	17413	CS002	R8A	4	BD	Inactive - Breakdown			0.00	1.00		0.00	0.00	0.00
04/02N	17413	CS002	R8A	4	DRI	Drilling Time			0.00	3.50		0.00	0.00	0.00
04/02N	17413	CS002	R8A	5	CB	Chrome Barrel			4.20	0.00		4.20	3.00	12.60
04/02N	17413	CS002	R8A	6	CO	Condition hole due ground condition			0.50	0.00		0.50	350.00	175.00
04/02N	17413	CS002	R8A	6	MM	Mixing muds			0.50	0.00		0.50	350.00	175.00
04/02N	17413	CS002	R8A	6	RT	Pull rods to check bit			3.00	0.00		3.00	350.00	1,050.00
04/02N	17413	CS002	R8A	6	ST	Site travel			1.50	2.00		1.50	250.00	375.00
05/02D	17414	CS002	R8A	2	NQ	NQ core drilling	814.60	822.50	7.90	0.00		7.90	165.00	1,303.50
05/02D	17414	CS002	R8A	4	DRI	Drilling Time			0.00	3.00		0.00	0.00	0.00
05/02D	17414	CS002	R8A	4	PS	Inactive - Pre Starts			0.00	0.50		0.00	0.00	0.00
05/02D	17414	CS002	R8A	5	CB	Chrome Barrel			7.90	0.00		7.90	3.00	23.70
05/02D	17414	CS002	R8A	6	RT	Run NQ in			5.00	0.00		5.00	350.00	1,750.00
05/02D	17414	CS002	R8A	6	ST	Site travel			1.50	2.00		1.50	250.00	375.00
05/02N	17415	CS002	R8A	2	NQ	NQ core drilling	822.50	846.20	23.70	0.00		23.70	165.00	3,910.50
05/02N	17415	CS002	R8A	4	DRI	Drilling Time			0.00	7.00		0.00	0.00	0.00
05/02N	17415	CS002	R8A	4	PS	Inactive - Pre Starts			0.00	0.50		0.00	0.00	0.00
05/02N	17415	CS002	R8A	5	BL	Consumable - Bit Lube			1.00	0.00		1.00	139.30	139.30
05/02N	17415	CS002	R8A	5	CB	Chrome Barrel			23.70	0.00		23.70	3.00	71.10
05/02N	17415	CS002	R8A	5	CR	Consumable - CR650			1.00	0.00		1.00	156.45	156.45
05/02N	17415	CS002	R8A	6	CO	Condition hole due ground condition			0.50	0.00		0.50	350.00	175.00
05/02N	17415	CS002	R8A	6	MM	Mixing muds			0.50	0.00		0.50	350.00	175.00
05/02N	17415	CS002	R8A	6	ST	Site travel			1.50	2.00		1.50	250.00	375.00
06/02D	17416	CS002	R8A	2	NQ	NQ core drilling	846.20	894.20	48.00	0.00		48.00	165.00	7,920.00
06/02D	17416	CS002	R8A	4	DRI	Drilling Time			0.00	7.00		0.00	0.00	0.00
06/02D	17416	CS002	R8A	4	PS	Inactive - Pre Starts			0.00	0.50		0.00	0.00	0.00

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Date Shft	Plod	Hole	Rig	Type	Product	From	To	TotClient	TotCoy.	Serial/CustReference	Qty	Rate	Extension
06/02D	17416	CS002	R8A	5	BL	Consumable - Bit Lube			1.00	0.00	1.00	139.30	139.30
06/02D	17416	CS002	R8A	5	CB	Chrome Barrel			48.00	0.00	48.00	3.00	144.00
06/02D	17416	CS002	R8A	5	CR	Consumable - CR650			1.00	0.00	1.00	156.45	156.45
06/02D	17416	CS002	R8A	6	MM	Mixing muds			0.50	0.00	0.50	350.00	175.00
06/02D	17416	CS002	R8A	6	ST	Site travel			1.50	2.00	1.50	250.00	375.00
06/02N	17417	CS002	R8A	2	NQ	NQ core drilling	894.20	918.20	24.00	0.00	24.00	165.00	3,960.00
06/02N	17417	CS002	R8A	4	DRI	Drilling Time			0.00	4.50	0.00	0.00	0.00
06/02N	17417	CS002	R8A	4	PS	Inactive - Pre Starts			0.00	0.50	0.00	0.00	0.00
06/02N	17417	CS002	R8A	5	CB	Chrome Barrel			24.00	0.00	24.00	3.00	72.00
06/02N	17417	CS002	R8A	6	ESR	End of shift rotation travel time			0.00	2.00	0.00	0.00	0.00
06/02N	17417	CS002	R8A	6	SS	Survey shot/s (per shot)			1.00	0.00	1.00	95.00	95.00
06/02N	17417	CS002	R8A	6	ST	Site travel			1.50	2.00	1.50	250.00	375.00
07/02D	17418	CS002	R8A	2	NQ	NQ core drilling	918.20	927.20	9.00	0.00	9.00	165.00	1,485.00
07/02D	17418	CS002	R8A	4	DRI	Drilling Time			0.00	3.50	0.00	0.00	0.00
07/02D	17418	CS002	R8A	4	MT	Inactive - Maintenance for LV			0.00	4.50	0.00	0.00	0.00
07/02D	17418	CS002	R8A	4	PS	Inactive - Pre Starts			0.00	0.50	0.00	0.00	0.00
07/02D	17418	CS002	R8A	5	BL	Consumable - Bit Lube			1.00	0.00	1.00	139.30	139.30
07/02D	17418	CS002	R8A	5	CB	Chrome Barrel			9.00	0.00	9.00	3.00	27.00
07/02D	17418	CS002	R8A	6	ST	Site travel			1.50	2.00	1.50	250.00	375.00
07/02N	17419	CS002	R8A	2	NQ	NQ core drilling	927.20	966.20	39.00	0.00	39.00	165.00	6,435.00
07/02N	17419	CS002	R8A	4	DRI	Drilling Time			0.00	7.50	0.00	0.00	0.00
07/02N	17419	CS002	R8A	4	PS	Inactive - Pre Starts			0.00	0.50	0.00	0.00	0.00
07/02N	17419	CS002	R8A	5	BL	Consumable - Bit Lube			1.00	0.00	1.00	139.30	139.30
07/02N	17419	CS002	R8A	5	CB	Chrome Barrel			39.00	0.00	39.00	3.00	117.00
07/02N	17419	CS002	R8A	5	CR	Consumable - CR650			1.00	0.00	1.00	156.45	156.45
07/02N	17419	CS002	R8A	6	CO	Condition hole due ground condition			0.50	0.00	0.50	350.00	175.00
07/02N	17419	CS002	R8A	6	ST	Site travel			1.50	2.00	1.50	250.00	375.00
08/02D	17420	CS002	R8A	2	NQ	NQ core drilling	966.20	1,000.00	33.80	0.00	33.80	165.00	5,577.00
08/02D	17420	CS002	R8A	2	NQ	NQ core drilling	1,000.00	1,008.20	8.20	0.00	8.20	180.00	1,476.00
08/02D	17420	CS002	R8A	4	DRI	Drilling Time			0.00	7.50	0.00	0.00	0.00
08/02D	17420	CS002	R8A	4	PS	Inactive - Pre Starts			0.00	0.50	0.00	0.00	0.00
08/02D	17420	CS002	R8A	5	BL	Consumable - Bit Lube			1.00	0.00	1.00	139.30	139.30
08/02D	17420	CS002	R8A	5	CB	Chrome Barrel			42.00	0.00	42.00	3.00	126.00
08/02D	17420	CS002	R8A	6	SS	Survey shot/s (per shot)			1.00	0.00	1.00	95.00	95.00
08/02D	17420	CS002	R8A	6	ST	Site travel			1.50	2.50	1.50	250.00	375.00
08/02N	17421	CS002	R8A	2	NQ	NQ core drilling	1,008.20	1,032.20	24.00	0.00	24.00	180.00	4,320.00
08/02N	17421	CS002	R8A	4	DRI	Drilling Time			0.00	6.00	0.00	0.00	0.00
08/02N	17421	CS002	R8A	4	PS	Inactive - Pre Starts			0.00	0.50	0.00	0.00	0.00
08/02N	17421	CS002	R8A	4	WX	Shut down for lightning			2.00	0.00	2.00	250.00	500.00
08/02N	17421	CS002	R8A	5	CB	Chrome Barrel			24.00	0.00	24.00	3.00	72.00
08/02N	17421	CS002	R8A	6	ST	Site travel			1.50	2.00	1.50	250.00	375.00

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Date Shft	Plod	Hole	Rig	Type	Product	From	To	TotClient	TotCoy.	Serial/CustReference	Qty	Rate	Extension	
09/02D	17422	CS002	R8A	2	NQ	NQ core drilling	1,032.20	1,074.20	42.00	0.00		42.00	180.00	7,560.00
09/02D	17422	CS002	R8A	4	DRI	Drilling Time			0.00	8.00		0.00	0.00	0.00
09/02D	17422	CS002	R8A	4	PS	Inactive - Pre Starts			0.00	0.50		0.00	0.00	0.00
09/02D	17422	CS002	R8A	5	BL	Consumable - Bit Lube			1.00	0.00		1.00	139.30	139.30
09/02D	17422	CS002	R8A	5	CB	Chrome Barrel			42.00	0.00		42.00	3.00	126.00
09/02D	17422	CS002	R8A	6	ST	Site travel			1.50	2.00		1.50	250.00	375.00
09/02N	17423	CS002	R8A	2	NQ	NQ core drilling	1,074.20	1,104.20	30.00	0.00		30.00	180.00	5,400.00
09/02N	17423	CS002	R8A	4	DRI	Drilling Time			0.00	5.00		0.00	0.00	0.00
09/02N	17423	CS002	R8A	4	MT	Inactive - Maintenance			0.00	3.00		0.00	0.00	0.00
09/02N	17423	CS002	R8A	4	PS	Inactive - Pre Starts			0.00	0.50		0.00	0.00	0.00
09/02N	17423	CS002	R8A	5	BL	Consumable - Bit Lube			1.00	0.00		1.00	139.30	139.30
09/02N	17423	CS002	R8A	5	CB	Chrome Barrel			30.00	0.00		30.00	3.00	90.00
09/02N	17423	CS002	R8A	6	ST	Site travel			1.50	2.00		1.50	250.00	375.00
10/02D	17424	CS002	R8A	2	NQ	NQ core drilling	1,104.20	1,143.20	39.00	0.00		39.00	180.00	7,020.00
10/02D	17424	CS002	R8A	4	DRI	Drilling Time			0.00	8.00		0.00	0.00	0.00
10/02D	17424	CS002	R8A	4	PS	Inactive - Pre Starts			0.00	0.50		0.00	0.00	0.00
10/02D	17424	CS002	R8A	5	BL	Consumable - Bit Lube			1.00	0.00		1.00	139.30	139.30
10/02D	17424	CS002	R8A	5	CB	Chrome Barrel			39.00	0.00		39.00	3.00	117.00
10/02D	17424	CS002	R8A	6	ST	Site travel			1.50	2.00		1.50	250.00	375.00
10/02N	17425	CS002	R8A	2	NQ	NQ core drilling - EOH	1,143.20	1,167.20	24.00	0.00		24.00	180.00	4,320.00
10/02N	17425	CS002	R8A	4	DRI	Drilling Time			0.00	4.00		0.00	0.00	0.00
10/02N	17425	CS002	R8A	4	PS	Inactive - Pre Starts			0.00	0.50		0.00	0.00	0.00
10/02N	17425	CS002	R8A	5	CB	Chrome Barrel			24.00	0.00		24.00	3.00	72.00
10/02N	17425	CS002	R8A	6	ST	Site travel			1.50	2.00		1.50	250.00	375.00
11/02D	17426	CS002	R8A	6	CD	Client delay. Logging NQ part of hole			10.50	0.00		10.50	250.00	2,625.00
11/02D	17426	CS002	R8A	6	ST	Site travel			1.50	0.00		1.50	250.00	375.00
11/02N	17427	CS002	R8A	6	FI	Free HQ casing			1.00	0.00		1.00	350.00	350.00
11/02N	17427	CS002	R8A	6	RT	Pull HQ casing			4.00	0.00		4.00	350.00	1,400.00
11/02N	17427	CS002	R8A	6	ST	Site travel			0.00	1.50		0.00	250.00	0.00
11/02N	17427	CS002	R8A	6	STB	Offsider unfit to work			0.00	5.50		0.00	250.00	0.00
12/02D	17428	CS002	R8A	6	CD	Logging HQ part of hole			12.00	0.00		12.00	250.00	3,000.00
12/02N	17429	CS002	R8A	5	DAR	Consumable - Darby Plug			2.00	0.00		2.00	30.00	60.00
12/02N	17429	CS002	R8A	5	VAN	Consumables - Van Ruth Plug			1.00	0.00		1.00	400.00	400.00
12/02N	17429	CS002	R8A	6	CEM	Mix/drill cement,cementing/grouting			5.00	0.00		5.00	350.00	1,750.00
12/02N	17429	CS002	R8A	6	ST	Site travel			1.50	2.00		1.50	250.00	375.00
12/02N	17429	CS002	R8A	6	SU	Rig down, pack up and prep for move			2.00	0.00		2.00	350.00	700.00
13/02D	17430	CS001	R8A	5	GRT	Cement for grouting (Hole CS001)			1.00	0.00		1.00	2,265.60	2,265.60
13/02D	17430	CS002	R8A	5	GRT	Cement for grouting (Hole CS002)			1.00	0.00		1.00	2,265.60	2,265.60
13/02D	17430	CS002	R8A	6	CAMD	Survey camera hire (per day)			13.00	0.00		13.00	110.00	1,430.00
13/02D	17430	CS002	R8A	6	CEM	Mix/drill cement,cementing/grouting			1.50	0.00		1.50	350.00	525.00
13/02D	17430	CS002	R8A	6	MO	Move equipment back to bore			1.50	0.00		1.50	350.00	525.00

Proforma Invoices

Date	Shft	Plod	Hole	Rig	Type	Product	From	To	TotClient	TotCoy.	Serial/CustReference	Qty	Rate	Extension
13/02D	17430	CS002	R8A	6	ST	Site travel			1.50	2.00		1.50	250.00	375.00
13/02D	17430	CS002	R8A	6	STB	Load truck ready for demob			6.00	0.00		6.00	250.00	1,500.00
14/02D	9104	CS002	R8A	6	DEMOB	Demobilisation from Robxy Downs			1.00	0.00		1.00	6,000.00	6,000.00

Total for Job 168 = \$145,278.69

Total for Rig R8A = \$145,278.69

Overall Total = \$145,278.69

South Australia Ludi Mining Pty Ltd
Exploration Licence 4619 “Coward Springs”
Final report, PACE Project DPY7-01

S.A. Ludi Mining Pty Ltd
August 2013

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SUMMARY

South Australia Ludi Mining Pty Ltd conducted deep drill testing of two targets, designated “A1” and “D1”, within EL 4619 “Coward Springs”, commencing in December 2012 and completed in February 2013. The holes were drilled to test geophysical anomalies interpreted as possible Olympic Dam analogue IOCG targets at estimated depths of 800 metres. The drilling was part funded under PACE Grant DPY7-01.

As the area was known to lie within the Great Artesian Basin artesian precollars were required at each site. An artesian water bore was constructed at site A1 and provided water for diamond drilling and the exploration camp. As no aquifer was present at site D1, water had to be carted from the bore at A1.

Diamond drilling was by conventional triple tube wireline method and achieved excellent core recoveries throughout. Core was logged on site and strapped to pallets for transport. It is anticipated that DMITRE will require that the core be delivered to the Adelaide Core Library Facility for permanent storage and reference.

At A1 drilling revealed a thin (74 metre) sequence of Mesozoic clays and sands (Bulldog Shale, Cadna Owie Formation and Algebuckina Sandstone) overlying flat-bedded Neoproterozoic sediments (Umberatana Group). The targeted Mesoproterozoic rocks were not intersected, despite drilling to 1,164 metres.

At D1 Neoproterozoic Umberatana Group sediments were encountered beneath just 27 metres of Mesozoic Bulldog Shale. Flat lying Umberatana Group red/brown and grey shales, sandstone and carbonates (limestone and dolomitic limestone) extended from 27 metres to end of hole at 1,167 metres. Once again the targeted Mesoproterozoic was not reached.

1. INTRODUCTION

South Australia Ludi Mining Pty Ltd (“SALM”) acquired Exploration Licence 4619 “Coward Springs” to explore for large Mesoproterozoic copper/gold/uranium deposits analogous to Olympic Dam, which is located approximately 120 kilometres to the south. No previous exploration drilling for deposits of this type had been undertaken within the EL area, with the nearest deep drillhole located some 20 kilometres south of the southwest corner of the tenement. As geophysical data from government and industry sources suggested that potential for major IOCG deposits existed, SALM undertook a detailed review of that data, followed up with gravity and IP surveying, and identified two high priority exploration targets, designated “A1” and “D1” (see Figure 1).

During 2012 SALM obtained the necessary statutory, Aboriginal and landholder approvals and commenced drilling in early December 2012. The drilling was part funded under PACE Grant DPY7-01. This report summarises both operational and technical aspects of the drilling.

2. GEOLOGICAL SETTING

Exploration Licence 4619 is located approximately 120 kilometres north of Olympic Dam, near the interpreted northern edge of the Stuart Shelf. Precambrian basement geology in the area is very poorly known, with the nearest outcrops some 60 kilometres to the east. The nearest basement penetrating drillhole is located 20 kilometres south of the southwestern corner of the tenement. This hole (Newmont SR 17/2) penetrated 1,460 metres of Neoproterozoic sediments beneath 40 metres of Mesozoic Bulldog Shale and did not reach the Mesoproterozoic target.

Geophysical modelling at both targets A1 and D1 suggested depths to Mesoproterozoic basement of 800 metres and that cover was likely to be dominated by Neoproterozoic sediments similar to those in SR 17/2 with thin surficial Mesozoic and Cainozoic.

3. DRILLING AND LOGGING OPERATIONS

3.1 Precollars and water bores

Thompson Drilling Pty Ltd were engaged to construct precollars into basement at A1 and D1, along with a water bore targeting Algebuckina Sandstone at each site. Drill rig and crew arrived at site on 29/11/2012 and established a camp at the “A1 alternative water bore” site (see Figure 1), as access to A1, the planned camp site, was not accessible following a substantial rain event.

Drilling of the A1 water bore (“A1WB”) commenced on 1/12/2012 and encountered strong flow (20 litres/second) and pressure (280 kPa) from Algebuckina Sandstone at relatively shallow depth (68-74 metres). Control presented some difficulties and a mud weight of ~1.6 was required to stem the flow. The high mud weight exceeded the SG of PVC casing, necessitating the use of steel casing above the PVC screen. The casing was successfully placed, packed and cemented on 4/12/2012 and drilling of the A1 precollar (named CS-001) commenced the same day. The precollar was completed at 90 metres in Neoproterozoic shale, since ascribed to Angepena Formation/Willochra Subgroup (Umberatana Group). Steel casing (100mm) was pressure cemented in the hole to 90 metres in preparation for diamond drilling on 5/12/2012. Collar data for drillhole A1WB are included in Appendix 1 and lithological logging in Appendix 3.

The drill rig was shifted to site D1 on 6/12/2012 and intersected Neoproterozoic basement shale and limestone at 27 metres on 7/12/2012. As no aquifer sands were present the hole was cased with 100mm steel casing to 42 metres as the precollar for hole CS-002, then pressure cemented as a

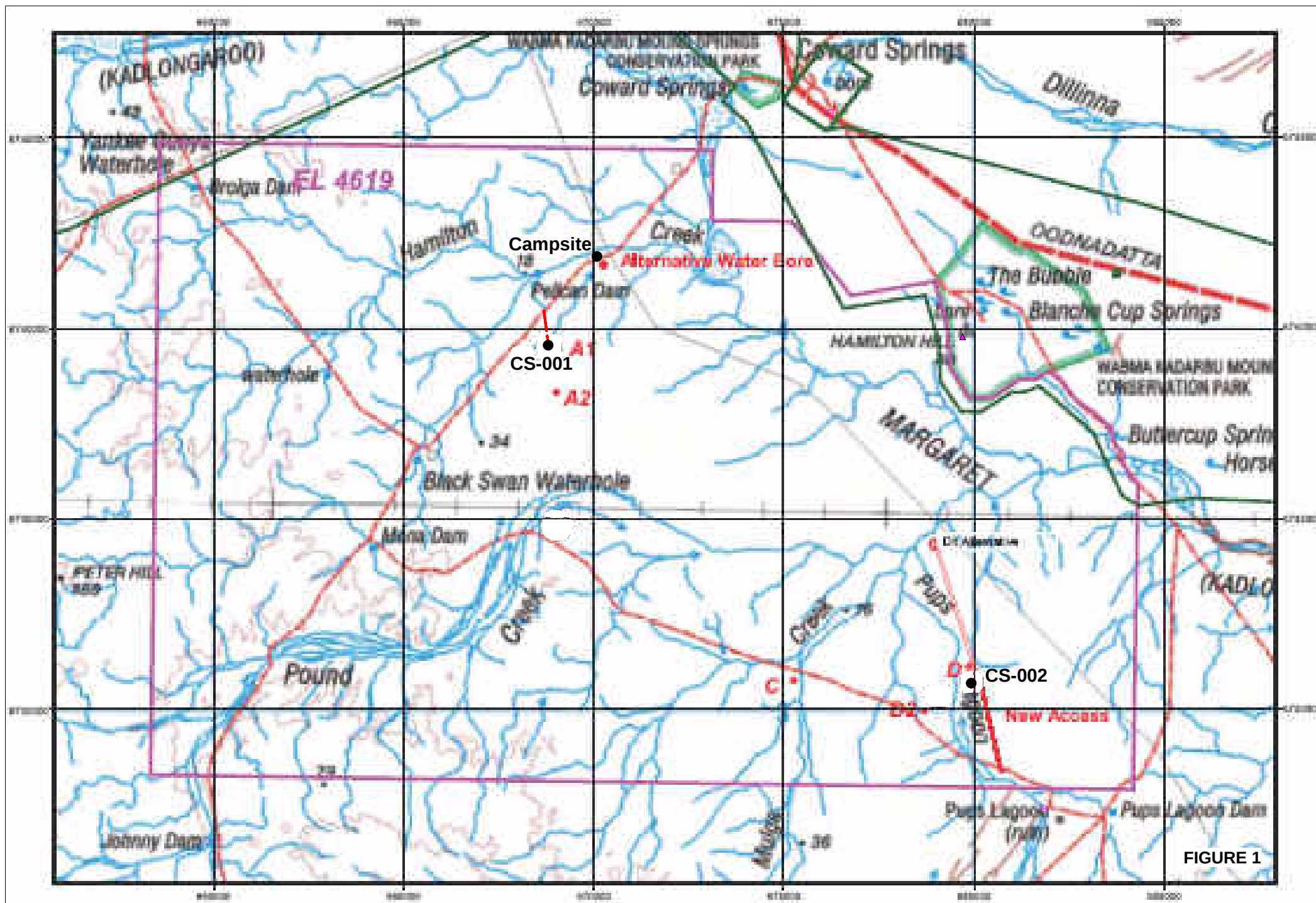


FIGURE 1

precaution against possible flows from basement shear zones connected laterally to the artesian aquifers.

3.2 Diamond drilling

Techdrill Services Pty Ltd conducted diamond drilling using the Thompson prepared precollars and water bore at A1. Drill rig (Sandvik DE 811) and crew arrived on site 14/12/2012 but could not move onto first site (A1, drillhole CS-001) until 19/12/2012 following a major rain event on the day of arrival.

Operations commenced on a single (day) shift basis on 20/12/2012, with an additional (night) shift from 5/1/2013. Techdrill based their crews in William Creek, some 75 kilometres from Coward Springs along the Oodnadatta Track. This necessitated travel times of approximately 2 hours each shift to site A1 (hole CS-001) and 3.5 hours per shift to site D1 (hole CS-002).

Drilling was by conventional triple tube wireline coring utilising in ground sumps previously excavated by backhoe. Core recovery was excellent throughout and no significant problems were encountered with shear zones, as the latter were rare and narrow when present. Hole CS-001 was drilled HQ3 to 720 metres, then NQ3 to end of hole at 1,164 metres. Hole CS-002 was drilled HQ3 to 719.5 metres, then NQ3 to 1,167 metres (EOH), with completion on 10/2/2013. Production on a "normal" shift averaged 36 to 42 metres, with a peak of 54 metres achieved on several shifts. Reagent usage was acceptable. Water consumption was never an issue at CS-001, with the A1 water bore on site. However at CS-002, water loss from the sumps, coupled with travel time to the A1 water bore, did cause some significant delays.

Core was logged on site and strapped to pallets for transport to the DMITRE Adelaide Core Library Facility for permanent storage and reference. Drillhole collar information is included as Appendix 1, surveys in Appendix 2 and geological logs as Appendix 3.

On completion the tops of both exploration holes were cemented back to surface from a plug placed approximately 30 metres below the base of the precollar. As there was no interest in retaining the water bore for stock use it was cemented over its full length.

3.3 Wireline logging

Drillholes were geophysically logged by Borehole-Wireline Pty Ltd using a Toyota Landcruiser mounted logging unit. Logging required two runs for each hole, one for the NQ section at bottom of hole (below 720 metres), then the second after pulling HQ rods to allow logging of the top section. Logging time for each section was approximately 11-12 hours. As the logging unit only had 1,046 useable metres of cable, the bottom of the holes below this depth could not be logged.

Holes were logged for gamma ray, short and deep spaced induction, short and deep focused resistivity, magnetic susceptibility and drift (azimuth and inclination) responses. Data are excellent and formation boundaries are distinctive. Graphical wireline logs are included as Appendix 7. Wireline logging data are also included in las format.

4. DRILLHOLE GEOLOGY

4.1 Hole CS-001

Hole CS-001 intersected Neoproterozoic sediments from the base of the Mesozoic (Bulldog Shale, Cadna Owie Formation and Algebuckina Sandstone) to end of hole. At 1,164 metres the hole was in a sequence of interbedded siltstone, fine sandstone and diamictite, believed to be Wilyerpa Formation (Umberatana Group). Formation names have been ascribed to the major units but are tentative and subject to revision. The hole did not reach the top of the target Mesoproterozoic.

Summary geology:

0-1: Cainozoic sand and soil, abundant silcrete lag.

1-54: Bulldog Shale, massive clay/shale.

54-67.5: Cadna Owie Formation, silty and clayey quartz sands.

67.5-73.5: Algebuckina Sandstone, coarse-very coarse pebbly quartz sands.

73.5-388.9: Angepena Formation, brown/red and grey shale, siltstone, minor limestone and dolomite. Small scale cross bedding, slumps, scours.

388.9-391.6: ?Etina Formation, shale and diamictite, minor nodular limestone.

391.6-440.27: Brighton Formation, red/brown limestone and shale, minor sandstone.

440.27-1,000.60: Tapley Hill Formation, laminated grey shale and limestone, sandy, some intraclastic and/or oolitic, dolomitic in part. Scours, small scale cross beds, slumps.

1,000.60-1,164.20: Wilyerpa Formation, brown and grey siltstone and fine sandstone, diamictite.

A more detailed drillhole log is included in Appendix 3.

4.2 Hole CS-002

Hole CS-002 intersected Bulldog Shale beneath a thin veneer of Cainozoic. Neoproterozoic basement was intersected from 27 metres, with Cadna Owie Formation and Algebuckina Sandstone both absent, suggesting a basement high at this location.

Summary geology:

0-0.5: Cainozoic sand/silt soil.

0.5-27: Bulldog Shale, massive clay/shale.

27-712.96: Angepena Formation, brown and grey shale and siltstone, minor quartz/lithic sandstone (commonly glauconitic) and limestone/dolomite, scours, small cross beds, ripples, mud cracks.

712.96-714.68: ?Etina Formation, shale with limestone nodules.

714.68-723.00: Brighton Formation, pale brown shale and limestone.

723.00-792.66: Yankaninna Siltstone (Tapley Hill Formation), red/brown siltstone and shale, limy in part, quartz/lithic sandstone at top, subordinate pale grey stromatolitic and sandy limestones (possibly equivalents of Wockerawirra Dolomite and/or Woocalla Dolomite).

792.66-832.80: Yankaninna/Tapley Hill Formation transition, brown and lesser grey laminated calcareous shale and siltstone, limestone.

832.80-1,167.20: Tapley Hill Formation, interlaminated grey calcareous shale and limestone, occasional thicker stromatolitic and sandy limestones, minor brown shale and siltstone.

A more detailed drillhole log is included in Appendix 3.

4.3 Mineralisation

In both holes rare small aggregates, fine veins and single crystals of fine pyrite and chalcopyrite are present, most commonly in limestone or greyish reduced sandstones.

In CS-002 a sinuous fine (1-2mm) sulphide vein of chalcopyrite, bornite and pyrite is present between 818.07 and 818.10 metres in limestone ascribed to the transition between Yankaninna Siltstone and Tapley Hill Formations. Core through the limestone interval (815-823 metres) has been cut and half core subjected to multi-element analysis. Results are included as Appendix 4.

5. CONCLUSIONS

At both sites A1 and D1 drilling has progressed well beyond the interpreted target tops (800 metres) without reaching the target Mesoproterozoic stratigraphy. Drillhole and geophysical data are being reviewed to establish if any Mesoproterozoic IOCG targets remain at acceptable depths.

6. REHABILITATION

Drill sites and access routes have been rehabilitated following completion of drilling. A report detailing rehabilitation is included as Appendix 5.

7. DRILLING COSTS

Direct drilling costs (excluding GST) for the project are as follows:

Precollar and water bore drilling (Thompson Drilling):	132,109.50
Diamond coring (Techdrill), 16/12/2012-31/12/2012:	84,298.96
Diamond coring (Techdrill), 1/1/2013-15/1/2013:	137,577.67
Diamond coring (Techdrill), 16/1/2013-31/1/2013:	118,871.89
<u>Diamond coring (Techdrill), 1/2/2013-15/2/2013:</u>	<u>145,278.69</u>
TOTAL:	\$618,136.71

Copies of drillers' invoices are included as Appendix 6.

APPENDIX 1

Drillhole collar information

Refer to asci file: EL4619_2013_PACE_02_DrillholeCollars.txt

EL 4619 - Coward Springs - Drillhole collar information										
Hole_ID	MGA94_E metres	MGA94_N metres	Zone	RL-MAMSL metres	Total depth metres	Azimuth_M degrees	Inclination degrees	Start Date	End Date	Notes
A1WB	668826	6739541	53	32	78	NA	-90	1/12/2012	4/12/2012	Water flow 20 litres/second at 280 kPa
CS-001	668825	6739512	53	32	1,164.20	NA	-90	4/12/2012	14/01/2013	Rotary mud precollar 0-90 metres
CS-002	679967	6730647	53	19	1,167.20	NA	-90	6/12/2012	10/02/2013	Rotary mud precollar 0-42 metres

APPENDIX 2

Downhole surveys

Refer to asci file: EL4619_2013_PACE_03_DownholeSurveys.txt

EL 4619 "Coward Springs" final report, PACE Project DPY7-01

EL 4619 - Coward Springs - Downhole surveys				
Hole_ID	Depth metres	Inclination degrees	Azimuth degrees	Comments
A1WB	0	-90	NA	setup,not surveyed
CS-001	0	-90	NA	setup,not surveyed
CS-001	130	-86.2	226.2	
CS-001	168	-86.7	225.4	
CS-001	200	-86.3	226.4	
CS-001	300	-86.8	226.7	
CS-001	396.4	-86.9	226.7	
CS-001	498.4	-87.1	228.6	
CS-001	606.4	-87.1	205	
CS-001	702.4	-87.3	224.7	
CS-001	800.2	-87.1	222.8	
CS-001	900.2	-87.1	222.7	
CS-001	1000.2	-87.2	220.2	
CS-001	1104.2	-87.3	221.1	
CS-001	1164	-87.3	220	
CS-002	0	NA	-90	setup,not surveyed
CS-002	102	-88.7	226.5	
CS-002	220	-89.1	237.5	
CS-002	320			camera failed-unresponsive
CS-002	370	-88.6	213.6	
CS-002	400			camera failed-unresponsive
CS-002	430	-88.9	213.9	
CS-002	500	-88.8	214.8	
CS-002	594.4	-88.8	214.7	
CS-002	702.4	-88.4	201.8	
CS-002	804.2	-88.5	193.7	
CS-002	900	-88.4	215.1	
CS-002	1000			camera failed-unresponsive
CS-002	1100			camera failed-unresponsive

APPENDIX 3

Drillhole geology

Refer to asci file: EL4619_2013_PACE_04_DrillholeGeology.txt

EL 4619 Drillhole geology

Hole_ID	From metres	To metres	Hue	Colour 1	Colour Join	Colour 2	Weathering	Lithology 1	Lithology join	Lithology 2	Inferred unit
A1WB	0	1	mid	red	-	brown	very high	soil	+	lag	Cainozoic
A1WB	1	7	pale/mid	khakhi	-	brown	high	clay	-	shale	Bulldog
A1WB	7	23	mid/dark	grey			slight	clay	-	shale	Bulldog
A1WB	23	35	dark	grey			fresh	clay/shale	+	(silt)	Bulldog
A1WB	35	55	dark/mid	grey			fresh	silt	+	clay/shale	Bulldog
A1WB	55	68	mid	grey			fresh	sand	+	silt	Cadna-owie
A1WB	68	74	pale	grey	-	white	fresh	sand			Algebuckina
A1WB	74	78	mid	grey			high	saprolitic clay	-	shale	Neoproterozoic
CS-001	0	1	mid	brown	-	(red)	very high	soil	+	lag	Cainozoic
CS-001	1	8	mid	khakhi	-	brown	high	clay	-	shale	Bulldog
CS-001	8	20	dark	grey			slight	clay/shale	+	silt	Bulldog
CS-001	20	34	dark	grey			fresh	clay/shale	+	silt	Bulldog
CS-001	34	48	dark/mid	grey			fresh	silt	+	clay/shale	Bulldog
CS-001	48	54	dark	grey			fresh	shale	-	clay	Bulldog
CS-001	54	67.5	pale/mid	grey			fresh	sand	+	silt	Cadna owie
CS-001	67.5	73.5	pale	grey	-	white	fresh	sand			Algebuckina
CS-001	73.5	82	pale	grey			strong	shale	+	saprolite	Willochra/Angepena
CS-001	82	86	mid	grey	+	grey	weak	shale			Willochra/Angepena
CS-001	86	178.8	mid	grey	+	red/brown	fresh	shale	+	carbonate	Willochra/Angepena
CS-001	178.8	179.4	mid	grey	+	red/brown	fresh	shear zone	-	shale	Willochra/Angepena
CS-001	179.4	268	mid	grey	+	red/brown	fresh	shale	+	carbonate	Willochra/Angepena
CS-001	268	290.83	mid	red/brown	+	(grey)	fresh	shale	+	(carbonate)	Willochra/Angepena
CS-001	290.83	290.92	mid	grey			fresh	shear			Willochra/Angepena
CS-001	290.92	298.7	mid	red/brown	+	(grey)	fresh	shale	+	(carbonate)	Willochra/Angepena
CS-001	298.7	388.9	mid	red/brown	+	(grey)	fresh	shale	+	siltstone	Willochra/Angepena
CS-001	339.85	340.19	mid	grey	-	brown	fresh	limestone			Willochra/Angepena
CS-001	388.9	391.6	mid/dark	red/brown			fresh	shale	-	diamictite	Etina?

EL 4619 Drillhole geology

Hole_ID	From metres	To metres	Lithology_comments
A1WB	0	1	aeolian sand/silt soil,abundant silcrete lag
A1WB	1	7	massive clay after shale,abundant gypsum at top (1-3m)
A1WB	7	23	massive dark grey shale,locally silty,flecks fine dark ?carbonaceous matter
A1WB	23	35	massive dark grey shale,minor local silt
A1WB	35	55	massive grey silt and lesser clay/shale
A1WB	55	68	fine grained silty quartz/(lithic) sand
A1WB	68	74	clean coarse to very coarse quartz sands,strong water flow (240 kpa)
A1WB	74	78	massive grey clay/shale,slight bluish tinge,very finely micaceous
CS-001	0	1	aeolian sand/silt soil,abundant silcrete lag
CS-001	1	8	massive limonitic clay ex shale protolith,gypsum at top
CS-001	8	20	massive dark grey shale,grades to silt
CS-001	20	34	massive dark grey shale,grades to silt,fresher
CS-001	34	48	massive clayey silts,subordinate/minor interbedded clay/shale
CS-001	48	54	massive dark grey clay/shale
CS-001	54	67.5	massive fine silty to clayey quartz/(lithic) sands,local minor silica cementation - "caprock"
CS-001	67.5	73.5	pebbly coarse to granule quartz sand,moderately sorted,subangular to subround
CS-001	73.5	82	saprolitic clays after pale grey massive shale,finely micaceous,scattered minor to common haematite reddening,probably Neoproterozoic
CS-001	82	86	mottled grey and brown cleaved finely micaceous shale,harder/fresher
CS-001	86	178.8	finely laminated grey and reddish brown shale,minor to subordinate pale grey fine sandy limestone and dolomite-more common towards top,local small scale scours and cross beds,local minor slumping 158-160m,occasional thin calcite vein
CS-001	178.8	179.4	fracture/shear zone in sediments as above
CS-001	179.4	268	finely laminated grey and reddish brown shale,minor to common pale grey fine sandy limestone and dolomite,local small scale scours and cross beds
CS-001	268	290.83	finely laminated reddish brown and (grey) shale,minor to (subordinate) interbedded pale grey fine sandy limestone/dolomite,local minor scours and small scale cross lamination
CS-001	290.83	290.92	shear zone in sediments as above
CS-001	290.92	298.7	finely laminated reddish brown and (grey) shale,minor to (subordinate) interbedded pale grey fine sandy limestone/dolomite,bedding steepened and local small scale faults,minor fine calcite veining
CS-001	298.7	388.9	finely laminated reddish brown and (grey) shale and (siltstone),minor to subordinate grey to brown fine limestone-more common at top-very minor at base ,small cross beds & slumps locally,trace fine calcite veins-some vuggy,dips flatten rapidly
CS-001	339.85	340.19	thin massive fine grained brownish grey sandy limestone
CS-001	388.9	391.6	red/brown shales with scattered rounded matrix supported limestone and quartzite dropstone pebbles,minor nodular to thin bedded limestone

EL 4619 Drillhole geology

Hole_ID	From metres	To metres	Sulphide_comment
A1WB	0	1	
A1WB	1	7	
A1WB	7	23	
A1WB	23	35	trace pyrite as fine crystal aggregates
A1WB	35	55	
A1WB	55	68	
A1WB	68	74	minor pyrite as fine crystal aggregates
A1WB	74	78	
CS-001	0	1	
CS-001	1	8	
CS-001	8	20	
CS-001	20	34	
CS-001	34	48	
CS-001	48	54	
CS-001	54	67.5	
CS-001	67.5	73.5	scattered finely crystalline pyrite aggregates
CS-001	73.5	82	
CS-001	82	86	
CS-001	86	178.8	trace fine pyrite on fractures
CS-001	178.8	179.4	
CS-001	179.4	268	trace fine pyrite on fractures
CS-001	268	290.83	rare fine pyrite on fractures
CS-001	290.83	290.92	
CS-001	290.92	298.7	
CS-001	298.7	388.9	
CS-001	339.85	340.19	
CS-001	388.9	391.6	

EL 4619 Drillhole geology

Hole_ID	From metres	To metres	Hue	Colour 1	Colour Join	Colour 2	Weathering	Lithology 1	Lithology join	Lithology 2	Inferred unit
CS-001	391.6	392.6	mid	red/brown			fresh	shale	+	limestone	Brighton transition
CS-001	392.6	400.19	pale	brown			fresh	limestone	+	(shale)	Brighton
CS-001	400.19	403.95	dark	brown			fresh	limestone			Brighton
CS-001	403.95	411.24	mid	brown			fresh	limestone	-	sandstone	Brighton
CS-001	411.24	411.6	dark	brown			fresh	shale	+	calc sandstone	Brighton
CS-001	411.6	420.37	mid/dark	brown			fresh	limestone	+	shale	Brighton
CS-001	420.37	422.58	dark	brown			fresh	calc shale	+	(limestone)	Brighton
CS-001	422.58	426.6	dark	brown			fresh	shale			Brighton
CS-001	426.6	428.88	pale	grey			fresh	limestone			Brighton
CS-001	428.88	432.65	mid	brown	-	grey	fresh	calc shale	+	(limestone)	Brighton
CS-001	432.65	439.06	mid	grey	-	(brown)	fresh	calc shale			Brighton
CS-001	439.06	440.23	pale	grey			fresh	limestone			Brighton
CS-001	440.23	440.27	pale/mid	grey			fresh	sandstone			Brighton
CS-001	440.27	452.39	mid/pale	grey	-	(brown)	fresh	calc shale	+	limestone	Tapley Hill
CS-001	452.39	465.76	dark/mid	grey		(brown)	fresh	calc shale			Tapley Hill
CS-001	465.76	473.89	pale	grey			fresh	limestone			Tapley Hill
CS-001	473.89	531.37	mid/dark	grey			fresh	calc shale			Tapley Hill
CS-001	531.37	531.46	pale	grey			fresh	limestone			Tapley Hill
CS-001	531.46	531.57	mid/dark	grey			fresh	calc shale			Tapley Hill
CS-001	531.57	548.07	pale	grey			fresh	limestone			Tapley Hill
CS-001	548.07	564.91	mid/dark	grey			fresh	calc shale			Tapley Hill

EL 4619 Drillhole geology

Hole_ID	From metres	To metres	Lithology_comments
CS-001	391.6	392.6	transitional zone between thin bedded pale limestone and darker red/brown shale
CS-001	392.6	400.19	laminatd to thin bedded pale brown limestone,probably dolomitic,subordinate red/brown shale laminae-more common above 397.5m,small scale basal scours common,individual beds coarsen upwards
CS-001	400.19	403.95	massive to weakly banded (?algal) dark brown fine grained limestone,clayey in part,fine calcite crystal casts after ?evaporites-common below 400.6m,minor clastic grains locally,irregular white ?phosphate nodules below 401.85m
CS-001	403.95	411.24	medium-coarse grained carbonate cemented quartz/lithic calc-sandstone,locally to granule sized,ranges from matrix (silty carbonate) to (grain)support,interbedded irregular patches massive limestone as above (with white ?phosphate nodules)
CS-001	411.24	411.6	massive to banded/laminated dark brown shale,laminae fine calcareous quartz/lithic sand scattered throughout,irregular white ?phosphate nodules locally
CS-001	411.6	420.37	banded to laminated brown limy shale and co-dominant fine sandy limestone/calcareenite,bedding sub-parallel to wavy and commonly lenticular,minor fine calcite veining-most S0 parallel
CS-001	420.37	422.58	massive brown shale-commonly limy/calcareous,minor interbedded thin pale limestone laminae
CS-001	422.58	426.6	darker brown shale,rare thin limy zones,trace fine S0 parallel calcite veins
CS-001	426.6	428.88	pale grey irregularly laminated limestone,probably stromatolitic/algal lamination,some darker laminae stylolitic
CS-001	428.88	432.65	interlaminated calcareous shale and limestone (probably a calc-sandstone),lamination mainly sub-parallel but some irregular surfaces and some lenticular
CS-001	432.65	439.06	massive to laminated calcareous shale (lime mudstone/calclutite),lamination parallel
CS-001	439.06	440.23	pale grey irregularly laminated limestone,probably stromatolitic/algal lamination,some stylolitic laminae,cut by discordant 15mm clcite vein
CS-001	440.23	440.27	medium grained grain supported carbonate cemented quartz/lithic calc-sandstone
CS-001	440.27	452.39	interlaminated calcareous shale and limestone (probably a calc-sandstone),lamination sub-parallel but commonly slightly wavy,occasional thin calcite vein,probably top of Tapley Hill Formation
CS-001	452.39	465.76	laminated to massive calcareous shale,top transitional,minor green reduction spotting locally,occasional minor slumped zones,minor local discordant calcite veining
CS-001	465.76	473.89	pale grey irregularly laminated limestone-stromatolitic/algal at least in part,local quartz lithic calc sands,upper and lower contacts both rapid transition
CS-001	473.89	531.37	massive laminated calcareous (?dolomitic) shale,occasional minor slumped zones,minor greenish tinged zones below 479.75m,local brecciation and calcite veining 486.4-488.43m,507.20-507.74m
CS-001	531.37	531.46	pale grey sandy oolitic limestone/calcareenite,carbonate overprinting medium grained quartz and lithic sand grains
CS-001	531.46	531.57	laminated calcareous (?dolomitic) shale
CS-001	531.57	548.07	pale grey limestone,includes stromatolitic (dominant below 532.75m) and oolitic (as for 531.37-531.46m) variants,occasional minor darker irregular clayey zones-more common below 534.5m,basal contact sharp/erosional
CS-001	548.07	564.91	laminated calcareous (?dolomitic) shale,occasional thin discordant calcite vein

EL 4619 Drillhole geology

Hole_ID	From metres	To metres	Sulphide_comment
CS-001	391.6	392.6	
CS-001	392.6	400.19	
CS-001	400.19	403.95	
CS-001	403.95	411.24	
CS-001	411.24	411.6	
CS-001	411.6	420.37	
CS-001	420.37	422.58	
CS-001	422.58	426.6	
CS-001	426.6	428.88	
CS-001	428.88	432.65	
CS-001	432.65	439.06	
CS-001	439.06	440.23	
CS-001	440.23	440.27	
CS-001	440.27	452.39	
CS-001	452.39	465.76	
CS-001	465.76	473.89	trace bornite and lesser chalcopyrite/pyrite as small crystal aggregates 467.82-468.03m
CS-001	473.89	531.37	
CS-001	531.37	531.46	
CS-001	531.46	531.57	
CS-001	531.57	548.07	
CS-001	548.07	564.91	

EL 4619 Drillhole geology

Hole_ID	From metres	To metres	Hue	Colour 1	Colour Join	Colour 2	Weathering	Lithology 1	Lithology join	Lithology 2	Inferred unit
CS-001	564.91	730.61	pale	grey			fresh	limestone	+	calc shale	Tapley Hill
CS-001	730.61	730.98	pale	grey			fresh	limestone	+	breccia	Tapley Hill
CS-001	730.98	735.4	pale	grey			fresh	limestone	+	calc shale	Tapley Hill
CS-001	735.4	742.3	pale	grey			fresh	limestone	+	breccia	Tapley Hill
CS-001	742.3	762.21	pale	grey			fresh	limestone	+	calc shale	Tapley Hill
CS-001	762.21	806.97	mid/pale	grey			fresh	calc shale	+	limestone	Tapley Hill
CS-001	806.97	834.38	mid/dark	grey			fresh	shale	+	(limestone)	Tapley Hill
CS-001	834.38	992.87	pale	grey			fresh	limestone	+	calc shale	Tapley Hill
CS-001	992.87	995.6	mid	grey			fresh	calc shale	+	(limestone)	Tapley Hill
CS-001	995.6	1000.6	pale	grey			fresh	limestone	+	(calc shale)	Tapley Hill
CS-001	1000.6	1013	mid	brown			fresh	siltstone			Wilyerpa
CS-001	1013	1051.33	mid	grey			fresh	siltstone			Wilyerpa
CS-001	1051.33	1154.36	mid	grey			fresh	siltstone	+	sandstone	Wilyerpa
CS-001	1154.36	1164.2	mid	grey			fresh	siltstone	+	diamictite	Wilyerpa
CS-002	0	0.5	mid	brown			very high	soil	+	lag	Cainozoic
CS-002	0.5	4	mid	khakhi	-	brown	high	clay/shale	+	silt	Bulldog
CS-002	4	7	dark	grey			slight	clay/shale	+	silt	Bulldog
CS-002	7	13	dark	grey			fresh	clay/shale	+	silt	Bulldog
CS-002	13	14	mid	grey			fresh	limestone			Bulldog
CS-002	14	27	dark	grey			fresh	clay/shale	+	silt	Bulldog
CS-002	27	29	mid	grey	-	(buff)	fresh	limestone			Willochra/Angepena
CS-002	29	148.95	mid	grey	+	brown	fresh	shale	+	(sandstone)	Willochra/Angepena
CS-002	148.95	189.79	mid	brown	+	(grey)	fresh	shale	+	(sandstone)	Willochra/Angepena
CS-002	189.79	365.46	mid	brown/red	+	(grey)	fresh	shale	+	(sandstone)	Willochra/Angepena

EL 4619 Drillhole geology

Hole_ID	From metres	To metres	Lithology_comments
CS-001	564.91	730.61	pale grey laminated to bedded sandy limestone/calcarene, intraclastic and oolitic in places, local small scale cross bedding/wavy bedding, scours, some beds distinctly graded, interlaminated dark grey calc shales-locally dominant
CS-001	730.61	730.98	angular breccia zone in limestone/shale as above, some associated calcite veining
CS-001	730.98	735.4	pale grey laminated to thin bedded sandy limestone as above breccia zone, subordinate interlaminated darker grey calc shale
CS-001	735.4	742.3	limestone/shale as above with subordinate coarse angular breccia zones locally, some associated calcite veining
CS-001	742.3	762.21	pale grey laminated to thin bedded sandy limestone, subordinate interlaminated darker grey calc shale, scours, small scale cross beds
CS-001	762.21	806.97	laminated calc shale and subordinate pale grey sandy limestone
CS-001	806.97	834.38	laminated grey shales-limy/dolomitic in part, minor interlaminated to thin bedded sandy limestone/calcarene
CS-001	834.38	992.87	pale grey laminated to thin bedded sandy limestone, subordinate interlaminated darker grey calc shale, scours, small scale cross beds, slumped beds-very common towards base
CS-001	992.87	995.6	laminated grey shales-limy/dolomitic, minor-subordinate interlaminated to thin bedded pale grey sandy limestone/calcarene
CS-001	995.6	1000.6	pale grey laminated to thin bedded sandy limestone, thicker bedded in places, subordinate interlaminated darker grey calc shale, scours, slumps
CS-001	1000.6	1013	massive brownish siltstone, calcareous at top-possibly dolomitic, minor local greenish grey reduced patches
CS-001	1013	1051.33	massive grey quartz rich siltstone, similar to above but grey/reduced, top contact diffuse
CS-001	1051.33	1154.36	grey quartz rich siltstone, grades to very fine quartz sandstone-locally with reddish tinge, vaguely bedded to massive, becomes more laminated/sandy at depth
CS-001	1154.36	1164.2	laminated quartz rich siltstone to very fine sandstone, subordinate interbedded coarse matrix and clast supported pebble to cobble diamictite, clasts sediments include shale, siltstone, fine sandstone and coarser red haematitic sandstone, subround to angular
CS-002	0	0.5	sand/silt soil, scattered silcrete lag
CS-002	0.5	4	massive clay/shale, gypsiferous at top, limonite stained
CS-002	4	7	massive clay/shale and silt, darker/fresher
CS-002	7	13	massive clay/shale and silt, fresh
CS-002	13	14	massive hard grey limestone
CS-002	14	27	massive clay/shale and silt, fresh
CS-002	27	29	massive hard grey limestone, patchy coarse crystalline calcite veining
CS-002	29	148.95	shale and siltstone, minor-subordinate interbedded fine-medium quartz/(lithic) sandstone-slightly limy/?dolomitic at top, commonly glauconitic, some intraclastic, scours, small cross beds, ripples, sinuous sand filled mudcracks
CS-002	148.95	189.79	similar to above but red/brown colours dominant-more oxidised, sands coarser and less glauconite, top is transitional, scours, slumps, small cross beds
CS-002	189.79	365.46	massive to laminated red/brown (minor-subordinate grey) shale and siltstone, minor fine-medium-coarse reddish quartz/(lithic)sands-more common towards base-some glauconitic, top is transitional-not well defined, scours, common cross bedding, mud cracks at top

EL 4619 Drillhole geology

Hole_ID	From metres	To metres	Sulphide_comment
CS-001	564.91	730.61	rare trace chalcopyrite as fine crystal aggregates at 566.0m,rare pyrite in some laminae (eg 589.34) and cementing nodular/irregular aggregates 597.85-598.03
CS-001	730.61	730.98	rare trace pyrite and chalcopryite in breccia matrix 730.70
CS-001	730.98	735.4	
CS-001	735.4	742.3	rare trace pyrite and chalcopryite in breccia matrix
CS-001	742.3	762.21	
CS-001	762.21	806.97	
CS-001	806.97	834.38	
CS-001	834.38	992.87	thin (2-4 mm) irregular/discontinuous pyrite bands 970.06, 980.82m
CS-001	992.87	995.6	
CS-001	995.6	1000.6	local trace very fine aggregates pyrite and ?chalcopyrite
CS-001	1000.6	1013	
CS-001	1013	1051.33	
CS-001	1051.33	1154.36	trace finely crystalline pyrite aggregates and laminae,pyrite associated disrupted fine reddish pink sericitic quartz sand 1056.59-1056.66
CS-001	1154.36	1164.2	
CS-002	0	0.5	
CS-002	0.5	4	
CS-002	4	7	
CS-002	7	13	trace finely crystalline pyrite aggregates
CS-002	13	14	minor pyrite as aggregates and films
CS-002	14	27	
CS-002	27	29	trace pyrite as aggregates and films
CS-002	29	148.95	trace pyrite and chalcopyrite disseminated in sands and in fine bedding parallel calcite veins
CS-002	148.95	189.79	rare fine chalcopyrite disseminated in sands
CS-002	189.79	365.46	rare pyrite in clayey fractures with thin quartz veining,trace chalcopyrite locally

EL 4619 Drillhole geology

Hole_ID	From metres	To metres	Hue	Colour 1	Colour Join	Colour 2	Weathering	Lithology 1	Lithology join	Lithology 2	Inferred unit
CS-002	365.46	468	mid	grey	+	(brown)	fresh	shale	+	(sandstone)	Willochra/Angepena
CS-002	468	640.65	mid	brown	+	(grey)	fresh	shale	+	(calc siltstone)	Willochra/Angepena
CS-002	640.65	712.96	mid	brown			fresh	shale	+	(siltstone)	Willochra/Angepena
CS-002	712.96	714.68	mid	brown			fresh	shale	+	(calc shale)	Etina
CS-002	714.68	723	pale	brown			fresh	shale	+	limestone	Brighton
CS-002	723	727.45	mid	red	-	brown	fresh	shale			Yankaninna
CS-002	727.45	736.29	pale	red			fresh	sandstone			Yankaninna
CS-002	736.29	747.18	pale	red			fresh	sandstone			Yankaninna
CS-002	747.18	749.05	dark	red	-	brown	fresh	shale	-	siltstone	Yankaninna
CS-002	749.05	774.73	mid/pale	red	-	grey	fresh	siltstone	+	sandstone	Yankaninna
CS-002	774.73	777.66	pale	grey	-	white	fresh	limestone			Yankaninna
CS-002	777.66	778.03	pale	red			fresh	limestone	-	silty	Yankaninna
CS-002	778.03	778.66	pale	grey	-	white	fresh	limestone			Yankaninna
CS-002	778.66	788.8	mid	red/brown			fresh	calc siltstone	-	silty limestone	Yankaninna
CS-002	788.8	789.71	pale	white	+	(brown)	fresh	limestone			Yankaninna
CS-002	789.71	791.13	pale	white	+	(brown)	fresh	limestone	-	calc sandstone	Yankaninna
CS-002	791.13	792.66	mid	brown	-	(red)	fresh	calc siltstone	-	silty limestone	Yankaninna
CS-002	792.66	793.89	mid	grey	-	(brown)	fresh	calc siltstone	-	calc shale	Yankaninna/Tapley
CS-002	793.89	800.3	mid	brown	-	(grey)	fresh	calc siltstone	-	calc shale	Yankaninna/Tapley
CS-002	800.3	807	mid	grey	-	(brown)	fresh	calc shale	-	calc siltstone	Yankaninna/Tapley

EL 4619 Drillhole geology

Hole_ID	From metres	To metres	Lithology_comments
CS-002	365.46	468	laminated grey and red/brown shale and siltstone, minor to subordinate pale grey fine quartz sands-mainly at top, minor sandy dolomitic limestone/calcareous, top sharp, cross bedding common, ripples, occasional slump, scours
CS-002	468	640.65	well laminated red/brown and grey shale, minor interlaminated limy/dolomitic siltstone/fine sandstone-locally rippled/fine cross bedded, top is transitional/gradational, occasional scour, slump
CS-002	640.65	712.96	well laminated red/brown shale, rare-(minor) grey shale and dolomitic siltstone-fine sandstone, occasional massive fine sandy limestone to ~60cms, top is transitional, small cross beds, occasional scour
CS-002	712.96	714.68	laminated red/brown shales as above, scattered pale brown limy shale/shaly limestone nodules to >50mm, top taken at first calc nodule
CS-002	714.68	723	laminated pale brown calc shale/dolomitic limestone, subordinate darker red/brown shale, top transitional with increasing darker red/brown shale
CS-002	723	727.45	massive to laminated red/brown shale, common to abundant small white calcite aggregates-possibly pseudomorphing evaporite precursor
CS-002	727.45	736.29	massive medium to coarse moderate-poorly sorted quartz/lithic sandstone, white limy cement common
CS-002	736.29	747.18	laminated to thin bedded fine to medium quartz/lithic sandstone, well sorted, weak calcite cement, pervasive weak reddish haematite stain, local minor thin coarser beds, locally cross bedded
CS-002	747.18	749.05	massive to laminated darker red/brown shale, grades to siltstone
CS-002	749.05	774.73	interlaminated reddish siltstone and fine-very fine quartz/lithic sandstone, paler laminae calcitic-silty limestone-more common at base, local scours, slumps, minor intraclast breccia, occasional greenish reduced band below 771.4m
CS-002	774.73	777.66	pale grey/white fine grained stromatolitic and sandy (calcareous) limestones, irregular undulose to low domal algal lamination, top contact sharp
CS-002	777.66	778.03	laminated reddish silty limestone, lamination parallel to slightly wavy
CS-002	778.03	778.66	pale grey/white fine grained stromatolitic limestone, irregular domal algal lamination, basal contact sharp, top somewhat diffuse
CS-002	778.66	788.8	well laminated limy siltstone/silty limestone, brownish with red tinge-oxidised, laminae parallel, very uniform/regular, millimetre scale
CS-002	788.8	789.71	pale grey/white to reddish fine grained stromatolitic limestone, irregular and domal algal lamination, basal contact sharp, top somewhat diffuse over 7 cms
CS-002	789.71	791.13	medium grained calcareous quartz/lithic sandstone with strong white calcite cement, laminated to bedded, some cross bedding, minor stromatolitic limestone at base (791.03-791.12)
CS-002	791.13	792.66	well laminated limy siltstone/silty limestone, brown/(red)-oxidised, laminae parallel, very uniform/regular, millimetre scale, minor sandy limestone/calcareous quartz/lithic sandstone, top contact sharp, cross bedded at top
CS-002	792.66	793.89	well laminated grey/brown calcareous siltstone, less oxidised, minor laminated to thin bedded pale calc sandstone scattered throughout
CS-002	793.89	800.3	well laminated limy siltstone/silty limestone, brownish, laminae parallel, very uniform/regular, millimetre scale, minor sandy limestone/calcareous quartz/lithic sandstone
CS-002	800.3	807	well laminated grey calcareous siltstone/silty limestone, less oxidised, possibly Tapley Hill Formation, top transitional

EL 4619 Drillhole geology

Hole_ID	From metres	To metres	Sulphide_comment
CS-002	365.46	468	
CS-002	468	640.65	
CS-002	640.65	712.96	
CS-002	712.96	714.68	
CS-002	714.68	723	
CS-002	723	727.45	
CS-002	727.45	736.29	
CS-002	736.29	747.18	
CS-002	747.18	749.05	
CS-002	749.05	774.73	
CS-002	774.73	777.66	
CS-002	777.66	778.03	
CS-002	778.03	778.66	
CS-002	778.66	788.8	
CS-002	788.8	789.71	
CS-002	789.71	791.13	
CS-002	791.13	792.66	
CS-002	792.66	793.89	
CS-002	793.89	800.3	
CS-002	800.3	807	

EL 4619 Drillhole geology

Hole_ID	From metres	To metres	Hue	Colour 1	Colour Join	Colour 2	Weathering	Lithology 1	Lithology join	Lithology 2	Inferred unit
CS-002	807	815.06	mid	brown			fresh	calc shale	-	calc siltstone	Yankaninna/Tapley
CS-002	815.06	823.26	pale/mid	grey	-	white	fresh	limestone			Yankaninna/Tapley
CS-002	823.26	832.8	mid	brown	-	(red)	fresh	calc shale			Yankaninna/Tapley
CS-002	832.8	885.12	mid	grey	+	(brown)	fresh	calc shale			Tapley Hill
CS-002	885.12	899.29	pale/mid	grey			fresh	limestone	+	shale	Tapley Hill
CS-002	899.29	902.78	pale	grey			fresh	limestone	-	sandstone	Tapley Hill
CS-002	902.78	905	mid/pale	grey			fresh	shale	+	limestone	Tapley Hill
CS-002	905	919.56	mid	grey	-	(brown)	fresh	calc shale			Tapley Hill
CS-002	919.56	961.72	pale/mid	grey			fresh	limestone	+	(calc shale)	Tapley Hill
CS-002	961.72	1167.2	pale	grey			fresh	limestone	+	calc shale	Tapley Hill

EL 4619 Drillhole geology

Hole_ID	From metres	To metres	Lithology_comments
CS-002	807	815.06	well laminated brown/red limy shale,dolomitic, top vague/diffuse
CS-002	815.06	823.26	laminated and stromatolitic limestone,minor medium-coarse calcareous quartz/lithic sandstone,top sharp,silty at base (transitional)
CS-002	823.26	832.8	well laminated brown/red (minor grey) calcareous shale,possibly also dolomitic, top transitional
CS-002	832.8	885.12	well laminated grey (minor brown) calcareous shale,possibly also dolomitic, top transitional
CS-002	885.12	899.29	interbedded stromatolitic limestone,laminated slightly clayey limestone,minor to subordinate grey shale (often calcareous,more common at base)and calcareous quartz/lithic sandstone,occasional intraclast breccia,local cross bedding
CS-002	899.29	902.78	bedded to laminated medium to (coarse) sandy limestone and calcareous quartz/lithic sandstone,some small cross beds
CS-002	902.78	905	interlaminated grey shale and fine sandy limestone,common small scale cross beds
CS-002	905	919.56	well laminated grey (minor brown) calcareous shale,possibly also dolomitic, top gradational but taken at base of first overlying coarse sand
CS-002	919.56	961.72	laminated to thin bedded pale grey sandy limestone and darker calcareous shale, local stromatolitic limestone and darker grey shale,small scale cross beds,scours,graded bedding,minor intraclast breccia,local calcareous quartz/lithic sandstone,
CS-002	961.72	1167.2	laminated pale grey sandy limestone and darker grey calcareous shale,common small scale cross beds,scours,slumps,top at base of major dark shale,minor local calc quartz sands at top

EL 4619 Drillhole geology

Hole_ID	From metres	To metres	Sulphide_comment
CS-002	807	815.06	
CS-002	815.06	823.26	minor chalcopryrite/pyrite/bornite in narrow (1-2mm) sinuous vein 818.07-818.10
CS-002	823.26	832.8	
CS-002	832.8	885.12	
CS-002	885.12	899.29	trace disseminated pyrite and chalcopryrite-mainly in sandstones
CS-002	899.29	902.78	
CS-002	902.78	905	
CS-002	905	919.56	
CS-002	919.56	961.72	trace aggregates and occasional laminae finely crystalline pyrite - mainly in dark shales
CS-002	961.72	1167.2	

APPENDIX 4

Drillhole geochemistry

Refer to asci file: EL4619_2013_PACE_05_DrillholeGeochem.txt

	Hole_ID	Depth_ from	Depth_ to	Sample_ID	Sample_ code	Au	As	Co	Li	Ni	S	Sc	Zn	Ag	Be	Bi	Cd	Ce	Cs	Cu	Ga	Hf	In
Units		metres	metres			ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Method						FA1	IC3E	IC3E	IC3E	IC3E	IC3E	IC3E	IC3E	IC3M	IC3M	IC3M	IC3M	IC3M	IC3M	IC3M	IC3M	IC3M	IC3M
LDL						0.01	3	2	2	2	50	2	2	0.1	0.5	0.1	0.1	0.5	0.1	0.5	0.1	1	0.5
	CS_002	815	816	CS002-1	DC	<0.01	<3	8	27	15	600	7	41	0.2	1	0.2	1	50	2.7	13	8.5	5	<0.5
	CS_002	816	817	CS002-2	DC	<0.01	<3	9	31	15	500	7	46	0.2	1.5	0.1	1.1	55	3.1	22.5	9.5	7	<0.5
	CS_002	817	818	CS002-3	DC	<0.01	<3	7	24	12	900	6	37	0.4	1	0.2	1	46	2.1	250	7	5	<0.5
	CS_002	818	819	CS002-4	DC	<0.01	4	6	21	9	1800	5	33	0.3	0.5	0.2	1.2	65	1.6	115	6	6	<0.5
	CS_002	819	820	CS002-5	DC	<0.01	<3	7	24	11	750	5	37	0.2	1	0.3	0.9	47.5	2	130	6.5	5	<0.5
	CS_002	820	821	CS002-6	DC	<0.01	<3	8	31	14	450	7	45	0.2	1	<0.1	1.1	50	2.4	23	7.5	7	<0.5
	CS_002	821	822	CS002-7	DC	<0.01	<3	7	26	12	500	6	39	0.2	1	0.2	1	46.5	2.2	23.5	7	5	<0.5
	CS_002	822	823	CS002-8	DC	<0.01	<3	7	27	13	500	6	38	0.2	1	0.2	1.6	85	3.1	9	8.5	8	<0.5

	Hole_ID	Depth_ from	Depth_ to	Sample_ID	La	Mo	Nb	Pb	Rb	Sb	Se	Sn	Sr	Ta	Te	Th	Tl	U	W	Dy	Er	Eu	Gd	Ho
Units		metres	metres		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Method					IC3M	IC3M	IC3M	IC3M	IC3M	IC3M	IC3M	IC3M	IC3M	IC3M	IC3M	IC3M	IC3M	IC3M	IC3M	IC3R	IC3R	IC3R	IC3R	IC3R
LDL					0.5	0.1	0.5	0.5	0.1	0.5	0.5	0.1	0.1	0.5	0.2	0.1	0.1	0.1	0.5	0.02	0.05	0.02	0.05	0.02
	CS_002	815	816	CS002-1	23.5	1	9	8.5	48.5	0.5	<0.5	2.2	315	0.5	0.4	9.5	0.3	2.6	1	3.9	2.2	0.84	4.5	0.78
	CS_002	816	817	CS002-2	26	0.6	10	9	55	<0.5	<0.5	2.4	340	0.5	0.4	11	0.3	2.9	1	3.9	2.2	0.8	4.5	0.76
	CS_002	817	818	CS002-3	23	0.9	8	6	38	<0.5	<0.5	1.9	985	<0.5	0.6	9.5	0.2	2.6	1	3.4	2	0.72	4	0.68
	CS_002	818	819	CS002-4	31	7.5	7	8	32.5	<0.5	<0.5	2.3	780	<0.5	0.6	14	0.2	3.1	0.5	4	2.2	0.78	5	0.8
	CS_002	819	820	CS002-5	23.5	0.9	7	6.5	39	<0.5	<0.5	1.9	1025	<0.5	0.8	10	0.2	2.7	0.5	3.5	2	0.68	4.1	0.68
	CS_002	820	821	CS002-6	24.5	0.6	8.5	8	43.5	<0.5	<0.5	2	515	0.5	0.4	11	0.2	2.8	1	3.9	2.2	0.76	4.9	0.78
	CS_002	821	822	CS002-7	22	0.9	7	7.5	40.5	<0.5	<0.5	2	385	<0.5	0.6	9	0.2	2.2	0.5	3.4	1.85	0.7	4.1	0.66
	CS_002	822	823	CS002-8	39	1.1	10	11.5	55	0.5	<0.5	3.2	710	0.5	0.8	17	0.3	3.5	1	4.6	2.5	0.98	6	0.86

	Hole_ID	Depth_ from	Depth_ to	Sample_ID	Lu	Nd	Pr	Sm	Tb	Tm	Yb	Al	Ca	Fe	K	Mg	Mn	Na	P	Si	Ti	Cr	V	Ba
Units		metres	metres		ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%	%	%	%	%	%	%	%	%	ppm	ppm	ppm
Method					IC3R	IC3R	IC3R	IC3R	IC3R	IC3R	IC3R	IC4	IC5	IC6	IC7	IC8	IC9	IC10	IC11	IC12	IC13	IC14	IC15	IC4M
LDL					0.02	0.02	0.05	0.02	0.02	0.05	0.05	0.005	0.01	0.01	0.01	0.005	0.005	0.01	0.005	0.005	0.005	20	20	10
	CS_002	815	816	CS002-1	0.7	24	6	5	0.66	0.3	2.3	3.35	18.7	2.06	0.93	1.535	0.12	0.9	0.04	16.5	0.39	45	105	185
	CS_002	816	817	CS002-2	0.4	23.5	6	4.9	0.66	0.35	2.2	3.59	18.6	2.3	0.98	1.79	0.085	0.89	0.05	17.4	0.445	50	105	215
	CS_002	817	818	CS002-3	0.34	20.5	5.5	4.4	0.58	0.3	1.95	2.56	23.3	1.79	0.67	1.43	0.085	0.63	0.035	11.8	0.355	40	100	320
	CS_002	818	819	CS002-4	0.34	30	7.5	6	0.68	0.35	2.1	2.125	23.7	1.61	0.61	1.435	0.08	0.55	0.03	12.4	0.37	40	95	315
	CS_002	819	820	CS002-5	0.3	23	6	4.6	0.58	0.3	1.95	2.465	23.2	1.72	0.68	1.415	0.08	0.58	0.03	11.9	0.33	35	95	240
	CS_002	820	821	CS002-6	0.38	26	7	5.5	0.66	0.35	2.3	3.185	20.4	2.22	0.89	1.735	0.08	0.72	0.04	14.5	0.425	50	105	190
	CS_002	821	822	CS002-7	0.3	21.5	5.5	4.7	0.56	0.3	1.8	2.735	21.6	1.73	0.74	1.42	0.09	0.73	0.025	13.6	0.325	40	90	165
	CS_002	822	823	CS002-8	0.4	35	9.5	7	0.8	0.35	2.5	3.07	18.4	1.96	1.03	1.595	0.09	0.69	0.04	15.4	0.44	50	100	270

	Hole_ID	Depth_ from	Depth_ to	Sample_ID	Re	Y	Zr
Units		metres	metres		ppm	ppm	ppm
Method					IC4M	IC4M	IC4M
LDL					0.1	1	15
	CS_002	815	816	CS002-1	<0.1	21	245
	CS_002	816	817	CS002-2	<0.1	24	315
	CS_002	817	818	CS002-3	<0.1	20	250
	CS_002	818	819	CS002-4	<0.1	23	400
	CS_002	819	820	CS002-5	<0.1	20	280
	CS_002	820	821	CS002-6	<0.1	23	315
	CS_002	821	822	CS002-7	<0.1	19	265
	CS_002	822	823	CS002-8	<0.1	29	455

APPENDIX 5

Rehabilitation report

SOUTH AUSTRALIA LUDI MINING

EL 4619 COWARD SPRINGS

REHABILITATION REPORT, MAY 2013.

1. INTRODUCTION

South Australia Ludi Mining (SALM) has conducted two phases of exploration involving ground disturbing activities on EL 4619, Coward Springs. The first phase was an IP survey on five lines for a total of 30 line kilometres. Light vehicle access along the IP lines produced vehicle tracks. The second phase was a drilling programme consisting of one water bore and two 1200 metre cored holes drilled between December 2012 and February 2013. Drilling activities affected station tracks, local access tracks, drill pads and camp area. The locations of the activities are shown in Figure 1.

Core from the drill holes was strapped on pallets at the camp and sent to the Core Storage facility at Thebarton as part of this rehabilitation programme.

This report details rehabilitation activities completed between 6th to 12th May 2013.

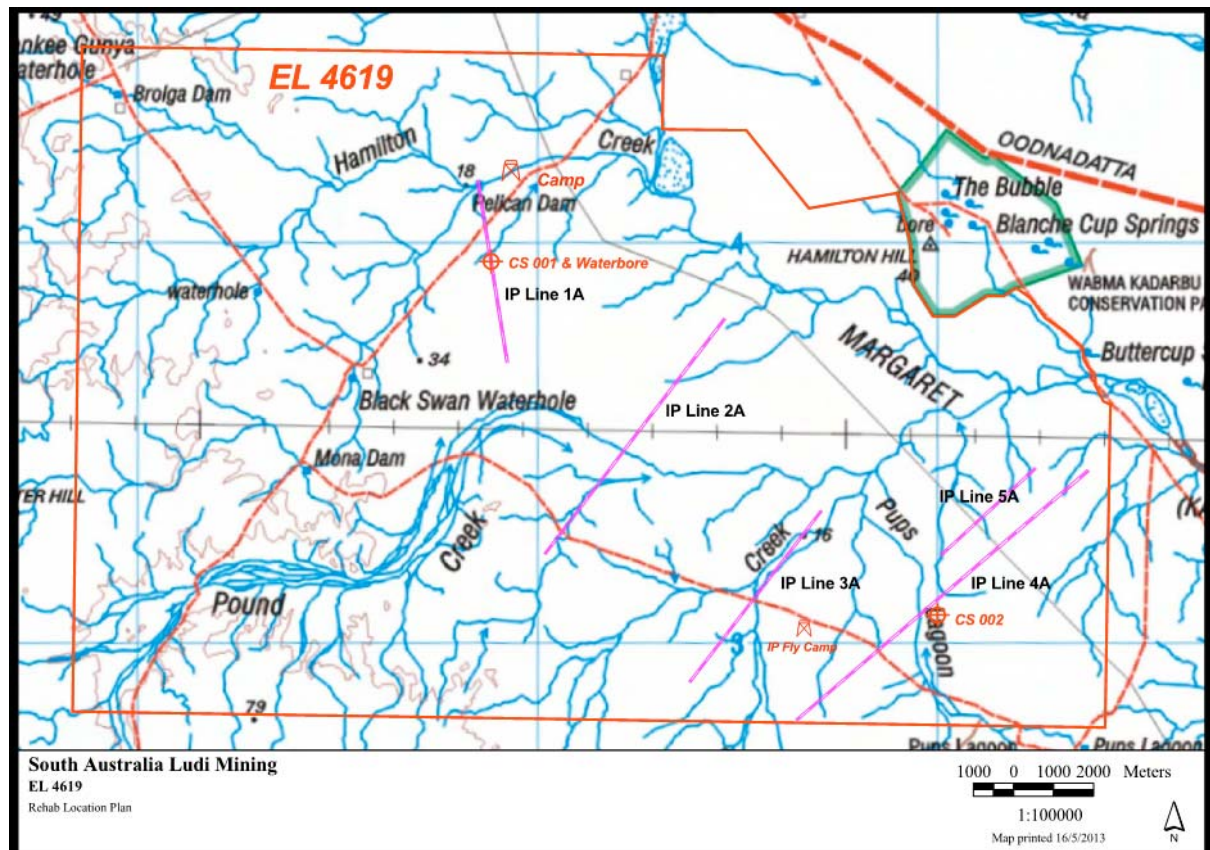


Figure 1: Rehabilitation Location Plan, EL 4619 Coward Springs.

2. EQUIPMENT

Equipment used to complete the rehabilitation were a Volvo L120E articulated loader (Photo 1) supplied by ODT Australis, Roxby Downs and an ABitruff 01 scarifier (Photo 2) supplied by Andrew Brockhoff, Coober Pedy.



Photo 1: Volvo loader



Photo 2: Scarifier

3. REHABILITATION ACTIVITIES

3.1 IP Lines

IP surveying was conducted over 5 lines for a total of 30 line kilometres. The IP lines are shown in purple on Figure 1. The tracks produced by light vehicles were selectively scarified, depending on the impact on the ground surface. The photos below show the “before” and “after” scarifying to demonstrate the effectiveness of the rehabilitation. Small electrode pits used during the survey were rehabilitated where required (Photo 7.)

Line 3A; photos taken at 675375gdaE, 6731080gdaN towards 200°mag.



Photo 3: Before scarifying



Photo 4: After scarifying

Line 4A; photos taken at 681539gdaE, 6732395gdaN towards 040° mag.



Photo 5: Before scarifying



Photo 6: After scarifying

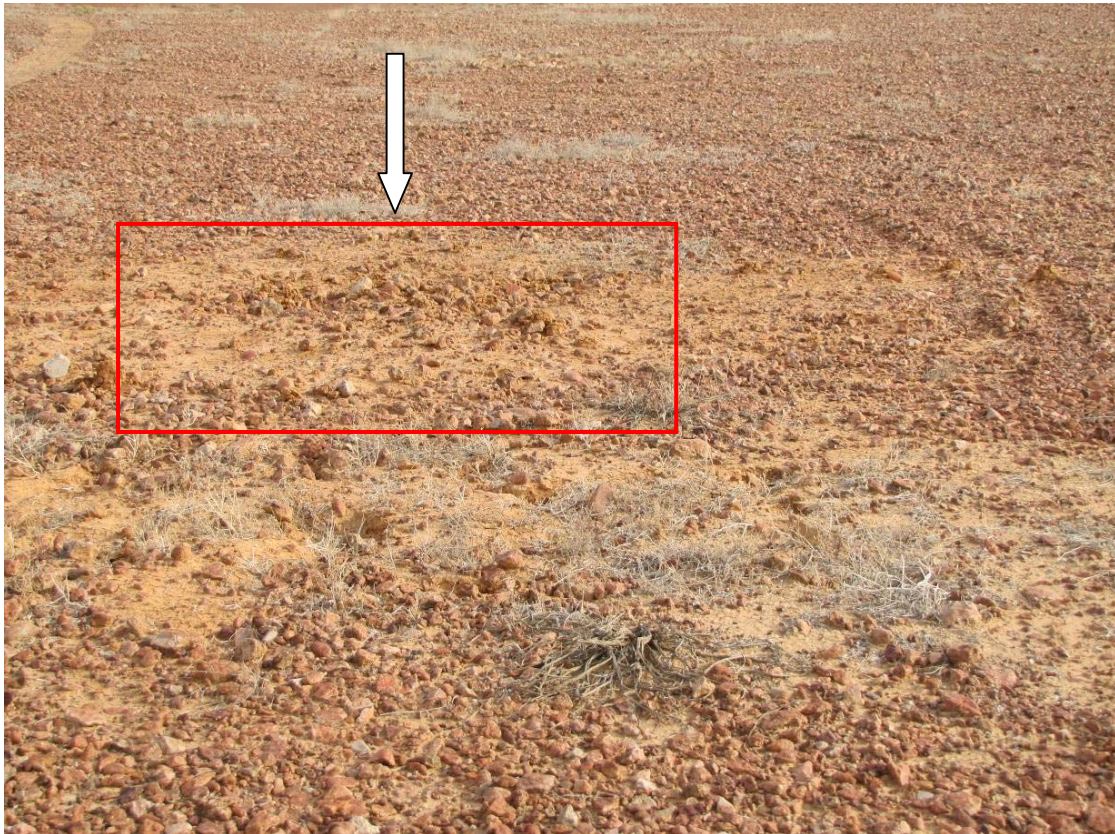


Photo 7: IP electrode pit (arrowed) after rehabilitation

3.2 Station Tracks

Reconnaissance in July 2012 showed the station track from Coward Springs to Stuart Creek Homestead via Mona Dam and Pups Lagoon Dam had not been graded for five years and was virtually impassable for light vehicles. Consequently SALM graded the track from Coward Springs to the turnoff to hole CS002 near Pups Lagoon Dam.

Carting water to drill hole CS002 led to “bull dusting” of the station track at zones dominated by kopi. SALM used ODT to repair these zones during the drilling programme by in-filling with clay obtained from nearby borrow pits. Discussions were held with Stuarts Creek Station management prior to commencing restoration work on the borrow pits used to repair the station tracks. The borrow pits were “landscaped” to remove steep sides and allow safe ingress and egress of cattle and native fauna. Additional work was carried out where appropriate to prevent erosion. Some parts of the track had detours around the soft patches before infilling by clay. These detours were flattened and re-contoured with mini-bunds to prevent erosion. The rehabilitation work was inspected by Mr Ken Lamb, overall Manager of Stuarts Creek Station, on 10th May, and he expressed satisfaction with the rehabilitation.



Photo 8: Station track with detours on right before rehabilitation



Photo 9: Closeup after rehabilitation showing mini bunding to prevent erosion



Photo 10: Borrow pit at 671586gdaE, 6732303gdaN before rehabilitation



Photo 11: Borrow pit after rehabilitation showing "landscaping" with low gradient sides

3.3 Access tracks

Access tracks to the drill sites were graded only where necessary prior to drilling. Drill hole CS001 was accessed using existing IP line 1A. Access to drillhole CS002 was on a track made through gibber plains and low semi-fixed sand dunes.



Photo 12: Access track to drillhole CS001 after scarifying



Photo 13: Access to drillhole CS002 at 680765gdaE, 6729335gdaN towards 300° mag before drilling



Photo 14: Access to drillhole CS002 at 680765gdaE, 6729335gdaN towards 300° mag after drilling



Photo 15: Access to drillhole CS002 at 680765gdaE, 6729335gdaN towards 300° mag after scarifying



Photo 16: Access to drill pad CS 002 blocked by replaced sand-dune



Photo 17: Access to drill pad CS 002 blocked by sand and gravel near entrance from station track

3.4 Drill pads

Drill collars were selected in flat, un-vegetated areas that required no earthworks. Containment sumps were dug using a backhoe, with topsoil stockpiled separately to sub-soil. The sumps were allowed to dry and backfilled with original spoil and topsoil spread last. The drillholes were cemented from well into basement (approximately 30 metres below base of precollar) and the casing cut below surface level and backfilled. The entire area of the drill pads was then scarified.



Photo 18: Cementing operations

3.4.1 Drillhole CS001



Photo 19: Drillhole CS001 drill pad before drilling



Photo 20: Drillhole CS001 drill pad after sumps filled in and area scarified



Photo 21: Drill collar for CS001 exposed prior to cutting below ground level.



Photo 22: Drill collar for CS001 cut prior to burial below ground level



Photo 23: Backfilling sumps at drillhole CS001



Photo 24: Levelling drill pad for CS001 prior to spreading topsoil. Topsoil heap arrowed.



Photo 25: Spreading topsoil at drill pad CS001

3.4.2 Drillhole CS002



Photo 26: Drill pad CS002 prior to drilling



Photo 27: Drill pad CS002 prior to rehabilitation



Photo 28: Drill pad CS002 after rehabilitation



Photo 29: Casing for drillhole CS002 exposed for cutting below ground level.



Photo 30: Casing for drillhole CS002 cut prior to burial below ground level



Photo 31: Backfilling sumps at drill pad CS002

3.5 Campsite

The campsite was situated at a site approved for an alternative water bore that was not drilled. The camp consisted of caravans which were removed at the completion of the drilling programme. All rubbish was taken to either Roxby Downs or William Creek.



Photo 32: Camp site at commencement of operations



Photo 33: Campsite after rehabilitation and scarifying



Photo 34: Alternative water bore site prior to becoming campsite



Photo 35: Alternative water bore site/campsite after scarifying

3.6 Drill Core

The drill core was strapped onto pallets and transported to the Core Storage facility at Thebarton.



Photo 36: Core ready for transport



Photo 37: Loading core

APPENDIX 6

Copies of drillers’ invoices



THOMPSON DRILLING COMPANY PTY. LTD.

A.C.N. 007 934 018

South Australia Ludi Mining Pty Ltd A.B.N. 97 305 837 954

20.12.12

10/237 Wakefield Street

Adelaide SA 5000

Att: Shenglu Zhao

TAX INVOICE NO. C0001

Re: Coward Springs

AMOUNT

Rig 18

29.11.12	AA 2731	10700.00
30.11.12	AA 2732	2005.00
01.12.12	AA 2733	6700.00
02.12.12	AA 2734	14420.00
03.12.12	AA 2735	5558.50
04.12.12	AA 2736	30613.50
05.12.12	AA 2737	34222.50
06.12.12	AA 2738	6370.00
07.12.12	AA 2739	21520.00

Sub Total	\$	132,109.50
Plus GST 10%	\$	13,210.95
GRAND TOTAL	\$	<u>145,320.45</u>



Techdrill Mining Services Pty Ltd

56 131 658 216

33 Leewood Drive, Orange NSW 2800

Ph: 02 6361 7853 Fx: 02 6361 8076 E: lee-anne.weber@techdrill.com.au

Tax Invoice

Invoice No: 498

Invoice Date: 31/12/2012

Period From: 16/12/2012

To: 31/12/2012

Contract/Ref:

Job: 168

Rig: R8A

Page: 1

Customer: SA Ludi Pty Ltd
10/237 Wakefield Street
Adelaide SA 5000

CstRef-Hole	Product		From	To	Qty	per	Rate	Extension
CS001	HQ	HQ core drilling	88.90	200.00	111.10	Metres	135.00	14,998.50
CS001	HQ	HQ core drilling	200.00	258.20	58.20	Metres	145.00	8,439.00
CS001	HQ	HQ core drilling	258.40	400.00	141.60	Metres	145.00	20,532.00
CS001	HQ	HQ core drilling	400.00	534.40	134.40	Metres	155.00	20,832.00
CS001	BD	Inactive - Breakdown			0.00	Hour	0.00	0.00
CS001	DRI	Drilling Time			0.00	Hour	0.00	0.00
CS001	PS	Inactive - Pre Starts			0.00	Hour	0.00	0.00
CS001	BL	Consumable - Bit Lube			8.00	Each	139.30	1,114.40
CS001	CB	Chrome Barrel			445.50	Metres	3.00	1,336.50
CS001	CR	Consumable - CR650			2.00	Each	156.45	312.90
CS001	RG	Consumable - Rod Grease			1.00	Each	199.94	199.94
CS001	SA	Consumable - Soda Ash			3.00	Each	46.24	138.72
CS001	MM	Mixing muds			2.50	Hour	350.00	875.00
CS001	OT	Other			0.00	Hour	1.00	0.00
CS001	RT	Run / pull rods for bit change & grease			4.00	Hour	350.00	1,400.00
CS001	RT	Run in and ream grout out			2.00	Hour	350.00	700.00
CS001	SS	Survey shot/s (per shot)			6.00	Each	95.00	570.00
CS001	ST	Site travel - N/A			0.00	Hour	250.00	0.00
CS001	SU	Set up site			5.00	Hour	350.00	1,750.00
NIL	PS	Inactive - Pre Starts			0.00	Hour	0.00	0.00
NIL	WX	Weather delay (max 10 hours)			8.50	Hour	250.00	2,125.00
NIL	CD	Client delay. Awaiting sump fill in			7.00	Hour	250.00	1,750.00
NIL	MO	Move rig from camp to site			0.50	Hour	350.00	175.00
NIL	MO	Move rig into camp			1.00	Hour	350.00	350.00
NIL	MO	Take lighting equipment to site			0.00	Hour	350.00	0.00
14/12/2012 NIL	MOB	Mobilisation to Roxby Downs site			1.00	Unit	6,000.00	6,000.00
NIL	ST	Site travel - N/A			0.00	Hour	250.00	0.00
NIL	SU	Line rig up			2.00	Hour	350.00	700.00

Sub-total: \$84,298.96

GST: \$8,429.90

Invoice total: \$92,728.86

Direct Deposit Details:

Bank: BSB: 083-144 A/C: 174627284

Acc Name: Techdrill Services

continued on page 2

CstRef-Hole	Product	From	To	Qty	per	Rate	Extension
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Invoice Summary

Invoice No:	Invoice Date:	Contract/Ref:	Drill Site(s):	Job:	Rig:
498	31/12/2012		William Creek Port Augusta	168	R8A
Product	Qty	per	Rate	Extension	
HQ HQ core drilling	111.10	Metres	135.00	14,998.50	
HQ HQ core drilling	199.80	Metres	145.00	28,971.00	
HQ HQ core drilling	134.40	Metres	155.00	20,832.00	
BD Inactive - Breakdown	0.00	Hour	0.00	0.00	
DRI Drilling Time	0.00	Hour	0.00	0.00	
PS Inactive - Pre Starts	0.00	Hour	0.00	0.00	
WX Weather delay (max 10 hours)	8.50	Hour	250.00	2,125.00	
BL Consumable - Bit Lube	8.00	Each	139.30	1,114.40	
CB Chrome Barrel	445.50	Metres	3.00	1,336.50	
CR Consumable - CR650	2.00	Each	156.45	312.90	
RG Consumable - Rod Grease	1.00	Each	199.94	199.94	
SA Consumable - Soda Ash	3.00	Each	46.24	138.72	
CD Client delay. Awaiting sump fill	7.00	Hour	250.00	1,750.00	
MM Mixing muds	2.50	Hour	350.00	875.00	
MO Move rig from camp to site	1.50	Hour	350.00	525.00	
MOB Mobilisation to Roxby Downs	1.00	Unit	6,000.00	6,000.00	
RT Run / pull rods for bit change &	6.00	Hour	350.00	2,100.00	
SS Survey shot/s (per shot)	6.00	Each	95.00	570.00	
SU Set up site	7.00	Hour	350.00	2,450.00	
sub-Total:				84,298.96	
GST				8,429.90	
Invoice				\$92,728.86	

Direct Deposit Details:

Bank: BSB: 083-144 A/C: 174627284
Acc Name: Techdrill Services

Summary of All Invoices this run: as at 8/01/2013 1:47:55 PM

Inv. No.	Customer	Net	GST	Total
498	SA Ludi Pty Ltd	84,298.96	8,429.90	92,728.86
For Job=168, Rig=R8A, Hole=<ALL>		84,298.96	8,429.90	92,728.86

Direct Deposit Details:

Bank: BSB: 083-144 A/C: 174627284

Acc Name: Techdrill Services

Job: 168

Customer: LUDI SA Ludi Pty Ltd

Rig: R8A

Date Shft	Plod	Hole	Rig	Type	Product	From	To	TotClient	TotCoy.	Serial/CustReference	Qty	Rate	Extension	
16/12D	18479	NIL	R8A	6	MOB	Mobilisation to Roxby Downs site			1.00	0.00	14/12/2012	1.00	6,000.00	6,000.00
16/12D	18480	NIL	R8A	4	PS	Inactive - Pre Starts			0.00	0.50	15/12/2012	0.00	0.00	0.00
16/12D	18480	NIL	R8A	4	WX	Weather delay (max 10 hours)			0.00	9.50	15/12/2012	0.00	250.00	0.00
16/12D	18480	NIL	R8A	6	ST	Site travel - N/A			0.00	2.00	15/12/2012	0.00	250.00	0.00
16/12D	18481	NIL	R8A	4	PS	Inactive - Pre Starts			0.00	0.50		0.00	0.00	0.00
16/12D	18481	NIL	R8A	4	WX	Weather delay (max 10 hours)			0.00	9.50		0.00	250.00	0.00
16/12D	18481	NIL	R8A	6	ST	Site travel - N/A			0.00	2.00		0.00	250.00	0.00
17/12D	18482	NIL	R8A	4	PS	Inactive - Pre Starts			0.00	0.50		0.00	0.00	0.00
17/12D	18482	NIL	R8A	4	WX	Weather delay (max 10 hours)			0.00	8.50		0.00	250.00	0.00
17/12D	18482	NIL	R8A	6	MO	Take lighting equipment to site			0.00	1.00		0.00	350.00	0.00
17/12D	18482	NIL	R8A	6	ST	Site travel - N/A			0.00	2.00		0.00	250.00	0.00
18/12D	18483	NIL	R8A	4	PS	Inactive - Pre Starts			0.00	0.50		0.00	0.00	0.00
18/12D	18483	NIL	R8A	4	WX	Weather delay (max 10 hours)			8.50	0.00		8.50	250.00	2,125.00
18/12D	18483	NIL	R8A	6	MO	Move rig into camp			1.00	0.00		1.00	350.00	350.00
18/12D	18483	NIL	R8A	6	ST	Site travel - N/A			0.00	2.00		0.00	250.00	0.00
19/12D	18484	NIL	R8A	4	PS	Inactive - Pre Starts			0.00	0.50		0.00	0.00	0.00
19/12D	18484	NIL	R8A	6	CD	Client delay. Awaiting sump fill in			7.00	0.00		7.00	250.00	1,750.00
19/12D	18484	NIL	R8A	6	MO	Move rig from camp to site			0.50	0.00		0.50	350.00	175.00
19/12D	18484	NIL	R8A	6	ST	Site travel - N/A			0.00	2.00		0.00	250.00	0.00
19/12D	18484	NIL	R8A	6	SU	Line rig up			2.00	0.00		2.00	350.00	700.00
20/12D	18485	CS001	R8A	2	HQ	HQ core drilling	88.90	102.40	13.50	0.00		13.50	135.00	1,822.50
20/12D	18485	CS001	R8A	4	DRI	Drilling Time			0.00	2.50		0.00	0.00	0.00
20/12D	18485	CS001	R8A	4	PS	Inactive - Pre Starts			0.00	0.50		0.00	0.00	0.00
20/12D	18485	CS001	R8A	5	BL	Consumable - Bit Lube			1.00	0.00		1.00	139.30	139.30
20/12D	18485	CS001	R8A	5	CB	Chrome Barrel			13.50	0.00		13.50	3.00	40.50
20/12D	18485	CS001	R8A	5	CR	Consumable - CR650			1.00	0.00		1.00	156.45	156.45
20/12D	18485	CS001	R8A	5	RG	Consumable - Rod Grease			1.00	0.00		1.00	199.94	199.94
20/12D	18485	CS001	R8A	6	RT	Run in and ream grout out			2.00	0.00		2.00	350.00	700.00
20/12D	18485	CS001	R8A	6	ST	Site travel - N/A			0.00	2.00		0.00	250.00	0.00
20/12D	18485	CS001	R8A	6	SU	Set up site			5.00	0.00		5.00	350.00	1,750.00
21/12D	18486	CS001	R8A	2	HQ	HQ core drilling	102.40	120.40	18.00	0.00		18.00	135.00	2,430.00
21/12D	18486	CS001	R8A	4	BD	Inactive - Breakdown			0.00	5.00		0.00	0.00	0.00
21/12D	18486	CS001	R8A	4	DRI	Drilling Time			0.00	5.50		0.00	0.00	0.00

Proforma Invoices

as at 8/01/2013 1:47:56 PM

Date Shft	Plod	Hole	Rig	Type	Product	From	To	TotClient	TotCoy.	Serial/CustReference	Qty	Rate	Extension	
21/12D	18486	CS001	R8A	4	PS	Inactive - Pre Starts			0.00	0.50		0.00	0.00	0.00
21/12D	18486	CS001	R8A	5	BL	Consumable - Bit Lube			1.00	0.00		1.00	139.30	139.30
21/12D	18486	CS001	R8A	5	CB	Chrome Barrel			18.00	0.00		18.00	3.00	54.00
21/12D	18486	CS001	R8A	5	SA	Consumable - Soda Ash			1.00	0.00		1.00	46.24	46.24
21/12D	18486	CS001	R8A	6	ST	Site travel - N/A			0.00	2.00		0.00	250.00	0.00
22/12D	18487	CS001	R8A	2	HQ	HQ core drilling	120.40	162.40	42.00	0.00		42.00	135.00	5,670.00
22/12D	18487	CS001	R8A	4	DRI	Drilling Time			0.00	9.00		0.00	0.00	0.00
22/12D	18487	CS001	R8A	4	PS	Inactive - Pre Starts			0.00	0.50		0.00	0.00	0.00
22/12D	18487	CS001	R8A	5	CB	Chrome Barrel			42.00	0.00		42.00	3.00	126.00
22/12D	18487	CS001	R8A	6	SS	Survey shot/s (per shot)			1.00	0.00		1.00	95.00	95.00
22/12D	18487	CS001	R8A	6	ST	Site travel - N/A			0.00	2.00		0.00	250.00	0.00
23/12D	18488	CS001	R8A	2	HQ	HQ core drilling	162.40	200.00	37.60	0.00		37.60	135.00	5,076.00
23/12D	18488	CS001	R8A	2	HQ	HQ core drilling	200.00	204.20	4.20	0.00		4.20	145.00	609.00
23/12D	18488	CS001	R8A	4	DRI	Drilling Time			0.00	8.50		0.00	0.00	0.00
23/12D	18488	CS001	R8A	4	PS	Inactive - Pre Starts			0.00	0.50		0.00	0.00	0.00
23/12D	18488	CS001	R8A	5	BL	Consumable - Bit Lube			1.00	0.00		1.00	139.30	139.30
23/12D	18488	CS001	R8A	5	CB	Chrome Barrel			41.80	0.00		41.80	3.00	125.40
23/12D	18488	CS001	R8A	5	SA	Consumable - Soda Ash			1.00	0.00		1.00	46.24	46.24
23/12D	18488	CS001	R8A	6	SS	Survey shot/s (per shot)			2.00	0.00		2.00	95.00	190.00
23/12D	18488	CS001	R8A	6	ST	Site travel - N/A			0.00	2.00		0.00	250.00	0.00
24/12D	18489	CS001	R8A	2	HQ	HQ core drilling	204.20	258.20	54.00	0.00		54.00	145.00	7,830.00
24/12D	18489	CS001	R8A	4	DRI	Drilling Time			0.00	9.50		0.00	0.00	0.00
24/12D	18489	CS001	R8A	4	PS	Inactive - Pre Starts			0.00	0.50		0.00	0.00	0.00
24/12D	18489	CS001	R8A	5	BL	Consumable - Bit Lube			1.00	0.00		1.00	139.30	139.30
24/12D	18489	CS001	R8A	5	CB	Chrome Barrel			54.20	0.00		54.20	3.00	162.60
24/12D	18489	CS001	R8A	5	CR	Consumable - CR650			1.00	0.00		1.00	156.45	156.45
24/12D	18489	CS001	R8A	6	ST	Site travel - N/A			0.00	2.00		0.00	250.00	0.00
25/12D	18490	CS001	R8A	2	HQ	HQ core drilling	258.40	300.40	42.00	0.00		42.00	145.00	6,090.00
25/12D	18490	CS001	R8A	4	DRI	Drilling Time			0.00	6.50		0.00	0.00	0.00
25/12D	18490	CS001	R8A	4	PS	Inactive - Pre Starts			0.00	0.50		0.00	0.00	0.00
25/12D	18490	CS001	R8A	5	BL	Consumable - Bit Lube			1.00	0.00		1.00	139.30	139.30
25/12D	18490	CS001	R8A	5	CB	Chrome Barrel			42.00	0.00		42.00	3.00	126.00
25/12D	18490	CS001	R8A	6	OT	Other			0.00	3.00		0.00	1.00	0.00
25/12D	18490	CS001	R8A	6	ST	Site travel - N/A			0.00	2.00		0.00	250.00	0.00
26/12D	18491	CS001	R8A	2	HQ	HQ core drilling	300.40	336.40	36.00	0.00		36.00	145.00	5,220.00
26/12D	18491	CS001	R8A	4	DRI	Drilling Time			0.00	7.50		0.00	0.00	0.00
26/12D	18491	CS001	R8A	4	PS	Inactive - Pre Starts			0.00	0.50		0.00	0.00	0.00
26/12D	18491	CS001	R8A	5	CB	Chrome Barrel			36.00	0.00		36.00	3.00	108.00
26/12D	18491	CS001	R8A	5	SA	Consumable - Soda Ash			1.00	0.00		1.00	46.24	46.24
26/12D	18491	CS001	R8A	6	OT	Other			0.00	1.50		0.00	1.00	0.00
26/12D	18491	CS001	R8A	6	SS	Survey shot/s (per shot)			1.00	0.00		1.00	95.00	95.00

Proforma Invoices

as at 8/01/2013 1:47:56 PM

Date Shft	Plod	Hole	Rig	Type	Product	From	To	TotClient	TotCoy.	Serial/CustReference	Qty	Rate	Extension
26/12D	18491	CS001	R8A	6	ST	Site travel - N/A			0.00	2.00	0.00	250.00	0.00
27/12D	18492	CS001	R8A	2	HQ	HQ core drilling	336.40	378.40	42.00	0.00	42.00	145.00	6,090.00
27/12D	18492	CS001	R8A	4	DRI	Drilling Time			0.00	9.50	0.00	0.00	0.00
27/12D	18492	CS001	R8A	4	PS	Inactive - Pre Starts			0.00	0.50	0.00	0.00	0.00
27/12D	18492	CS001	R8A	5	CB	Chrome Barrel			42.00	0.00	42.00	3.00	126.00
27/12D	18492	CS001	R8A	6	ST	Site travel - N/A			0.00	2.00	0.00	250.00	0.00
28/12D	18493	CS001	R8A	2	HQ	HQ core drilling	378.40	400.00	21.60	0.00	21.60	145.00	3,132.00
28/12D	18493	CS001	R8A	2	HQ	HQ core drilling	400.00	402.40	2.40	0.00	2.40	155.00	372.00
28/12D	18493	CS001	R8A	4	DRI	Drilling Time			0.00	4.50	0.00	0.00	0.00
28/12D	18493	CS001	R8A	4	PS	Inactive - Pre Starts			0.00	0.50	0.00	0.00	0.00
28/12D	18493	CS001	R8A	5	CB	Chrome Barrel			24.00	0.00	24.00	3.00	72.00
28/12D	18493	CS001	R8A	6	MM	Mixing muds			0.50	0.00	0.50	350.00	175.00
28/12D	18493	CS001	R8A	6	RT	Run / pull rods for bit change & grease			4.00	0.00	4.00	350.00	1,400.00
28/12D	18493	CS001	R8A	6	SS	Survey shot/s (per shot)			1.00	0.00	1.00	95.00	95.00
28/12D	18493	CS001	R8A	6	ST	Site travel - N/A			0.00	2.00	0.00	250.00	0.00
29/12D	18494	CS001	R8A	2	HQ	HQ core drilling	402.40	450.40	48.00	0.00	48.00	155.00	7,440.00
29/12D	18494	CS001	R8A	4	DRI	Drilling Time			0.00	9.00	0.00	0.00	0.00
29/12D	18494	CS001	R8A	4	PS	Inactive - Pre Starts			0.00	0.50	0.00	0.00	0.00
29/12D	18494	CS001	R8A	5	BL	Consumable - Bit Lube			1.00	0.00	1.00	139.30	139.30
29/12D	18494	CS001	R8A	5	CB	Chrome Barrel			48.00	0.00	48.00	3.00	144.00
29/12D	18494	CS001	R8A	6	MM	Mixing muds			0.50	0.00	0.50	350.00	175.00
29/12D	18494	CS001	R8A	6	ST	Site travel - N/A			0.00	2.00	0.00	250.00	0.00
30/12D	18495	CS001	R8A	2	HQ	HQ core drilling	450.40	492.40	42.00	0.00	42.00	155.00	6,510.00
30/12D	18495	CS001	R8A	4	DRI	Drilling Time			0.00	9.00	0.00	0.00	0.00
30/12D	18495	CS001	R8A	4	PS	Inactive - Pre Starts			0.00	0.50	0.00	0.00	0.00
30/12D	18495	CS001	R8A	5	BL	Consumable - Bit Lube			1.00	0.00	1.00	139.30	139.30
30/12D	18495	CS001	R8A	5	CB	Chrome Barrel			42.00	0.00	42.00	3.00	126.00
30/12D	18495	CS001	R8A	6	MM	Mixing muds			0.50	0.00	0.50	350.00	175.00
30/12D	18495	CS001	R8A	6	ST	Site travel - N/A			0.00	2.00	0.00	250.00	0.00
31/12D	18496	CS001	R8A	2	HQ	HQ core drilling	492.40	534.40	42.00	0.00	42.00	155.00	6,510.00
31/12D	18496	CS001	R8A	4	DRI	Drilling Time			0.00	8.00	0.00	0.00	0.00
31/12D	18496	CS001	R8A	4	PS	Inactive - Pre Starts			0.00	0.50	0.00	0.00	0.00
31/12D	18496	CS001	R8A	5	BL	Consumable - Bit Lube			1.00	0.00	1.00	139.30	139.30
31/12D	18496	CS001	R8A	5	CB	Chrome Barrel			42.00	0.00	42.00	3.00	126.00
31/12D	18496	CS001	R8A	6	MM	Mixing muds			1.00	0.00	1.00	350.00	350.00
31/12D	18496	CS001	R8A	6	SS	Survey shot/s (per shot)			1.00	0.00	1.00	95.00	95.00
31/12D	18496	CS001	R8A	6	ST	Site travel - N/A			0.00	2.00	0.00	250.00	0.00

Total for Job 168 = \$84,298.96

Total for Rig R8A = \$84,298.96



Techdrill Mining Services Pty Ltd

56 131 658 216

33 Leewood Drive, Orange NSW 2800

Ph: 02 6361 7853 Fx: 02 6361 8076 E: lee-anne.weber@techdrill.com.au

Tax Invoice

Invoice No: 502

Invoice Date: 15/01/2013

Period From: 1/01/2013

To: 15/01/2013

Contract/Ref:

Job: 168

Rig: R8A

Page: 1

Customer: SA Ludi Pty Ltd
10/237 Wakefield Street
Adelaide SA 5000

CstRef-Hole	Product	From	To	Qty	per	Rate	Extension
CS001	HQ	HQ core drilling	534.40	600.00	65.60	Metres 155.00	10,168.00
CS001	HQ	HQ core drilling	600.00	719.60	119.60	Metres 165.00	19,734.00
CS001	NQ	NQ core drilling	719.60	800.00	80.40	Metres 155.00	12,462.00
CS001	NQ	NQ core drilling	800.00	1,000.00	200.00	Metres 165.00	33,000.00
CS001	NQ	NQ core drilling	1,000.00	1,164.20	164.20	Metres 180.00	29,556.00
CS001	BD	Inactive - Breakdown			0.00	Hour 0.00	0.00
CS001	BD	Inactive - Breakdown. Awaiting parts			0.00	Hour 0.00	0.00
CS001	DRI	Drilling Time			0.00	Hour 0.00	0.00
CS001	MT	Inactive - Maintenance			0.00	Hour 0.00	0.00
CS001	PS	Inactive - Pre Starts			0.00	Hour 0.00	0.00
CS001	BL	Consumable - Bit Lube			24.00	Each 139.30	3,343.20
CS001	CB	Chrome Barrel			581.80	Metres 3.00	1,745.40
CS001	CR	Consumable - CR650			9.00	Each 156.45	1,408.05
CS001	ET	Consumable - Extra Tacky			2.00	Each 191.24	382.48
CS001	ET	Consumable - Xtra Tacky			3.00	Each 191.24	573.72
CS001	SA	Consumable - Soda Ash			3.00	Each 46.24	138.72
CS001	TR	Consumable - Trol - 1 kg bag			1.00	Each 16.10	16.10
CS001	CAMD	Survey camera hire (per day)			15.00	Day 110.00	1,650.00
CS001	CO	Condition hole due ground condition			2.50	Hour 350.00	875.00
CS001	CO	Flush after rod trip			1.00	Hour 350.00	350.00
CS001	CO	Flush hole			0.50	Hour 350.00	175.00
CS001	CO	Flush hole after rod trip			0.50	Hour 350.00	175.00
CS001	CO	Flush hole of cuttings			0.50	Hour 350.00	175.00
CS001	CO	Flush hole throughout shift			0.50	Hour 350.00	175.00
CS001	CO	Flush hole to remove excess cuttings			1.00	Hour 350.00	350.00
CS001	MM	Mixing muds			5.50	Hour 350.00	1,925.00
CS001	MO	Move rig between holes wait surveyor			5.50	Hour 350.00	1,925.00
CS001	MO	Move to next hole wait for surveyor			4.50	Hour 350.00	1,575.00
CS001	RT	HQ E.O.H rod pull			4.00	Hour 350.00	1,400.00
CS001	RT	Run / pull rods			8.50	Hour 350.00	2,975.00
CS001	RT	Run / pull rods EOH			5.00	Hour 350.00	1,750.00
CS001	RT	Run / pull rods to clean bit			0.00	Hour 350.00	0.00
CS001	RT	Run / pull rods to run in NQ			8.00	Hour 350.00	2,800.00
CS001	RT	Run in NQ barrel			5.00	Hour 350.00	1,750.00
CS001	SS	Survey shot/s (per shot)			5.00	Each 95.00	475.00
CS001	ST	Site travel - N/A			0.00	Hour 250.00	0.00
CS001	SU	Move gear to next site			10.00	Hour 350.00	3,500.00
CS001	SU	Set up sloops for NQ			2.00	Hour 350.00	700.00
CS001	SU	Start to pack up site			1.00	Hour 350.00	350.00

Sub-total: \$137,577.67

GST: \$13,757.77

Invoice total: \$151,335.44

Direct Deposit Details:

Bank: BSB: 083-144 A/C: 174627284

Acc Name: Techdrill Services

continued on page 2

CstRef-Hole	Product	From	To	Qty	per	Rate	Extension
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Invoice Summary

Invoice No:	Invoice Date:	Contract/Ref:	Drill Site(s):	Job:	Rig:
502	15/01/2013		William Creek Williams Creek	168	R8A
Product	Qty	per	Rate	Extension	
HQ HQ core drilling	65.60	Metres	155.00	10,168.00	
HQ HQ core drilling	119.60	Metres	165.00	19,734.00	
NQ NQ core drilling	80.40	Metres	155.00	12,462.00	
NQ NQ core drilling	200.00	Metres	165.00	33,000.00	
NQ NQ core drilling	164.20	Metres	180.00	29,556.00	
BD Inactive - Breakdown	0.00	Hour	0.00	0.00	
DRI Drilling Time	0.00	Hour	0.00	0.00	
MT Inactive - Maintenance	0.00	Hour	0.00	0.00	
PS Inactive - Pre Starts	0.00	Hour	0.00	0.00	
BL Consumable - Bit Lube	24.00	Each	139.30	3,343.20	
CB Chrome Barrel	581.80	Metres	3.00	1,745.40	
CR Consumable - CR650	9.00	Each	156.45	1,408.05	
ET Consumable - Extra Tacky	5.00	Each	191.24	956.20	
SA Consumable - Soda Ash	3.00	Each	46.24	138.72	
TR Consumable - Trol - 1 kg bag	1.00	Each	16.10	16.10	
CAMD Survey camera hire (per day)	15.00	Day	110.00	1,650.00	
CO Condition hole due ground	6.50	Hour	350.00	2,275.00	
MM Mixing muds	5.50	Hour	350.00	1,925.00	
MO Move rig between holes wait	10.00	Hour	350.00	3,500.00	
RT HQ E.O.H rod pull	30.50	Hour	350.00	10,675.00	
SS Survey shot/s (per shot)	5.00	Each	95.00	475.00	
SU Move gear to next site	13.00	Hour	350.00	4,550.00	
sub-Total:				137,577.67	
GST				13,757.77	
Invoice				\$151,335.44	

Direct Deposit Details:

Bank: BSB: 083-144 A/C: 174627284
Acc Name: Techdrill Services

Summary of All Invoices this run: as at 21/01/2013 3:12:40 PM

Inv. No.	Customer	Net	GST	Total
502	SA Ludi Pty Ltd	137,577.67	13,757.77	151,335.44
For Job=168, Rig=R8A, Hole=<ALL>		137,577.67	13,757.77	151,335.44

Direct Deposit Details: Bank: BSB: 083-144 A/C: 174627284 Acc Name: Techdrill Services
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Job: 168

Customer: LUDI SA Ludi Pty Ltd

Rig: R8A

Date Shft	Plod	Hole	Rig	Type	Product	From	To	TotClient	TotCoy.	Serial/CustReference	Qty	Rate	Extension	
01/01D	18497	CS001	R8A	2	HQ	HQ core drilling	534.40	576.40	42.00	0.00		42.00	155.00	6,510.00
01/01D	18497	CS001	R8A	4	DRI	Drilling Time			0.00	9.00		0.00	0.00	0.00
01/01D	18497	CS001	R8A	4	PS	Inactive - Pre Starts			0.00	0.50		0.00	0.00	0.00
01/01D	18497	CS001	R8A	5	CB	Chrome Barrel			42.00	0.00		42.00	3.00	126.00
01/01D	18497	CS001	R8A	5	CR	Consumable - CR650			1.00	0.00		1.00	156.45	156.45
01/01D	18497	CS001	R8A	6	MM	Mixing muds			0.50	0.00		0.50	350.00	175.00
01/01D	18497	CS001	R8A	6	ST	Site travel - N/A			0.00	2.00		0.00	250.00	0.00
02/01D	18498	CS001	R8A	2	HQ	HQ core drilling	576.40	600.00	23.60	0.00		23.60	155.00	3,658.00
02/01D	18498	CS001	R8A	2	HQ	HQ core drilling	600.00	618.40	18.40	0.00		18.40	165.00	3,036.00
02/01D	18498	CS001	R8A	4	DRI	Drilling Time			0.00	9.00		0.00	0.00	0.00
02/01D	18498	CS001	R8A	4	PS	Inactive - Pre Starts			0.00	0.50		0.00	0.00	0.00
02/01D	18498	CS001	R8A	5	BL	Consumable - Bit Lube			1.00	0.00		1.00	139.30	139.30
02/01D	18498	CS001	R8A	5	CB	Chrome Barrel			42.00	0.00		42.00	3.00	126.00
02/01D	18498	CS001	R8A	6	MM	Mixing muds			0.50	0.00		0.50	350.00	175.00
02/01D	18498	CS001	R8A	6	ST	Site travel - N/A			0.00	2.00		0.00	250.00	0.00
03/01D	18499	CS001	R8A	2	HQ	HQ core drilling	618.40	666.40	48.00	0.00		48.00	165.00	7,920.00
03/01D	18499	CS001	R8A	4	DRI	Drilling Time			0.00	9.00		0.00	0.00	0.00
03/01D	18499	CS001	R8A	4	PS	Inactive - Pre Starts			0.00	0.50		0.00	0.00	0.00
03/01D	18499	CS001	R8A	5	BL	Consumable - Bit Lube			1.00	0.00		1.00	139.30	139.30
03/01D	18499	CS001	R8A	5	CB	Chrome Barrel			48.00	0.00		48.00	3.00	144.00
03/01D	18499	CS001	R8A	6	MM	Mixing muds			0.50	0.00		0.50	350.00	175.00
03/01D	18499	CS001	R8A	6	ST	Site travel - N/A			0.00	2.00		0.00	250.00	0.00
04/01D	18500	CS001	R8A	2	HQ	HQ core drilling	666.40	714.40	48.00	0.00		48.00	165.00	7,920.00
04/01D	18500	CS001	R8A	4	DRI	Drilling Time			0.00	8.50		0.00	0.00	0.00
04/01D	18500	CS001	R8A	4	PS	Inactive - Pre Starts			0.00	0.50		0.00	0.00	0.00
04/01D	18500	CS001	R8A	5	BL	Consumable - Bit Lube			1.00	0.00		1.00	139.30	139.30
04/01D	18500	CS001	R8A	5	CB	Chrome Barrel			48.00	0.00		48.00	3.00	144.00
04/01D	18500	CS001	R8A	5	CR	Consumable - CR650			1.00	0.00		1.00	156.45	156.45
04/01D	18500	CS001	R8A	6	MM	Mixing muds			0.50	0.00		0.50	350.00	175.00
04/01D	18500	CS001	R8A	6	SS	Survey shot/s (per shot)			1.00	0.00		1.00	95.00	95.00
04/01D	18500	CS001	R8A	6	ST	Site travel - N/A			0.00	2.00		0.00	250.00	0.00
05/01D	17453	CS001	R8A	2	HQ	HQ core drilling	714.40	719.60	5.20	0.00		5.20	165.00	858.00
05/01D	17453	CS001	R8A	4	DRI	Drilling Time			0.00	1.00		0.00	0.00	0.00

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Date Shft	Plod	Hole	Rig	Type	Product	From	To	TotClient	TotCoy.	Serial/CustReference	Qty	Rate	Extension	
05/01D	17453	CS001	R8A	4	PS	Inactive - Pre Starts			0.00	0.50		0.00	0.00	0.00
05/01D	17453	CS001	R8A	5	BL	Consumable - Bit Lube			3.00	0.00		3.00	139.30	417.90
05/01D	17453	CS001	R8A	5	CB	Chrome Barrel			5.20	0.00		5.20	3.00	15.60
05/01D	17453	CS001	R8A	5	ET	Consumable - Xtra Tacky			3.00	0.00		3.00	191.24	573.72
05/01D	17453	CS001	R8A	5	TR	Consumable - Trol - 1 kg bag			1.00	0.00		1.00	16.10	16.10
05/01D	17453	CS001	R8A	6	MM	Mixing muds			0.50	0.00		0.50	350.00	175.00
05/01D	17453	CS001	R8A	6	RT	Run / pull rods to run in NQ			8.00	0.00		8.00	350.00	2,800.00
05/01D	17453	CS001	R8A	6	ST	Site travel - N/A			0.00	2.00		0.00	250.00	0.00
05/01N	17454	CS001	R8A	2	NQ	NQ core drilling	719.60	725.70	6.10	0.00		6.10	155.00	945.50
05/01N	17454	CS001	R8A	4	DRI	Drilling Time			0.00	1.50		0.00	0.00	0.00
05/01N	17454	CS001	R8A	4	PS	Inactive - Pre Starts			0.00	0.50		0.00	0.00	0.00
05/01N	17454	CS001	R8A	5	CB	Chrome Barrel			6.10	0.00		6.10	3.00	18.30
05/01N	17454	CS001	R8A	6	CO	Flush after rod trip			1.00	0.00		1.00	350.00	350.00
05/01N	17454	CS001	R8A	6	RT	Run in NQ barrel			5.00	0.00		5.00	350.00	1,750.00
05/01N	17454	CS001	R8A	6	ST	Site travel - N/A			0.00	2.00		0.00	250.00	0.00
05/01N	17454	CS001	R8A	6	SU	Set up sloops for NQ			2.00	0.00		2.00	350.00	700.00
06/01D	17455	CS001	R8A	2	NQ	NQ core drilling	725.70	780.20	54.50	0.00		54.50	155.00	8,447.50
06/01D	17455	CS001	R8A	4	DRI	Drilling Time			0.00	9.00		0.00	0.00	0.00
06/01D	17455	CS001	R8A	4	PS	Inactive - Pre Starts			0.00	0.50		0.00	0.00	0.00
06/01D	17455	CS001	R8A	5	BL	Consumable - Bit Lube			1.00	0.00		1.00	139.30	139.30
06/01D	17455	CS001	R8A	5	CB	Chrome Barrel			54.50	0.00		54.50	3.00	163.50
06/01D	17455	CS001	R8A	5	CR	Consumable - CR650			1.00	0.00		1.00	156.45	156.45
06/01D	17455	CS001	R8A	6	CO	Flush hole of cuttings			0.50	0.00		0.50	350.00	175.00
06/01D	17455	CS001	R8A	6	ST	Site travel - N/A			0.00	2.00		0.00	250.00	0.00
06/01N	17456	CS001	R8A	2	NQ	NQ core drilling	780.20	800.00	19.80	0.00		19.80	155.00	3,069.00
06/01N	17456	CS001	R8A	2	NQ	NQ core drilling	800.00	834.20	34.20	0.00		34.20	165.00	5,643.00
06/01N	17456	CS001	R8A	4	DRI	Drilling Time			0.00	8.50		0.00	0.00	0.00
06/01N	17456	CS001	R8A	4	PS	Inactive - Pre Starts			0.00	0.50		0.00	0.00	0.00
06/01N	17456	CS001	R8A	5	BL	Consumable - Bit Lube			1.00	0.00		1.00	139.30	139.30
06/01N	17456	CS001	R8A	5	CB	Chrome Barrel			54.00	0.00		54.00	3.00	162.00
06/01N	17456	CS001	R8A	6	CO	Flush hole throughout shift			0.50	0.00		0.50	350.00	175.00
06/01N	17456	CS001	R8A	6	SS	Survey shot/s (per shot)			1.00	0.00		1.00	95.00	95.00
06/01N	17456	CS001	R8A	6	ST	Site travel - N/A			0.00	2.00		0.00	250.00	0.00
07/01D	17457	CS001	R8A	2	NQ	NQ core drilling	834.20	882.20	48.00	0.00		48.00	165.00	7,920.00
07/01D	17457	CS001	R8A	4	DRI	Drilling Time			0.00	9.00		0.00	0.00	0.00
07/01D	17457	CS001	R8A	4	PS	Inactive - Pre Starts			0.00	0.50		0.00	0.00	0.00
07/01D	17457	CS001	R8A	5	BL	Consumable - Bit Lube			1.00	0.00		1.00	139.30	139.30
07/01D	17457	CS001	R8A	6	CO	Condition hole due ground condition			0.50	0.00		0.50	350.00	175.00
07/01D	17457	CS001	R8A	6	ST	Site travel - N/A			0.00	2.00		0.00	250.00	0.00
07/01N	17458	CS001	R8A	2	NQ	NQ core drilling	882.20	908.20	26.00	0.00		26.00	165.00	4,290.00
07/01N	17458	CS001	R8A	4	BD	Inactive - Breakdown			0.00	3.00		0.00	0.00	0.00

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Date Shft	Plod	Hole	Rig	Type	Product	From	To	TotClient	TotCoy.	Serial/CustReference	Qty	Rate	Extension	
07/01N	17458	CS001	R8A	4	DRI	Drilling Time			0.00	8.00		0.00	0.00	0.00
07/01N	17458	CS001	R8A	4	PS	Inactive - Pre Starts			0.00	0.50		0.00	0.00	0.00
07/01N	17458	CS001	R8A	5	BL	Consumable - Bit Lube			2.00	0.00		2.00	139.30	278.60
07/01N	17458	CS001	R8A	5	CB	Chrome Barrel			26.00	0.00		26.00	3.00	78.00
07/01N	17458	CS001	R8A	5	CR	Consumable - CR650			1.00	0.00		1.00	156.45	156.45
07/01N	17458	CS001	R8A	6	MM	Mixing muds			0.50	0.00		0.50	350.00	175.00
07/01N	17458	CS001	R8A	6	ST	Site travel - N/A			0.00	2.00		0.00	250.00	0.00
08/01D	17459	CS001	R8A	4	BD	Inactive - Breakdown			0.00	6.00		0.00	0.00	0.00
08/01D	17459	CS001	R8A	4	PS	Inactive - Pre Starts			0.00	0.50		0.00	0.00	0.00
08/01D	17459	CS001	R8A	6	RT	Run / pull rods			3.00	0.00		3.00	350.00	1,050.00
08/01D	17459	CS001	R8A	6	ST	Site travel - N/A			0.00	2.50		0.00	250.00	0.00
08/01N	17460	CS001	R8A	4	BD	Inactive - Breakdown. Awaiting parts			0.00	12.00		0.00	0.00	0.00
09/01D	17461	CS001	R8A	4	BD	Inactive - Breakdown			0.00	12.00		0.00	0.00	0.00
09/01N	17462	CS001	R8A	2	NQ	NQ core drilling	908.20	908.30	0.10	0.00		0.10	165.00	16.50
09/01N	17462	CS001	R8A	4	PS	Inactive - Pre Starts			0.00	0.50		0.00	0.00	0.00
09/01N	17462	CS001	R8A	5	BL	Consumable - Bit Lube			1.00	0.00		1.00	139.30	139.30
09/01N	17462	CS001	R8A	5	CB	Chrome Barrel			0.10	0.00		0.10	3.00	0.30
09/01N	17462	CS001	R8A	5	ET	Consumable - Extra Tacky			2.00	0.00		2.00	191.24	382.48
09/01N	17462	CS001	R8A	6	CO	Flush hole after rod trip			0.50	0.00		0.50	350.00	175.00
09/01N	17462	CS001	R8A	6	MM	Mixing muds			1.50	0.00		1.50	350.00	525.00
09/01N	17462	CS001	R8A	6	RT	Run / pull rods			5.50	0.00		5.50	350.00	1,925.00
10/01D	17463	CS001	R8A	2	NQ	NQ core drilling	908.30	918.20	9.90	0.00		9.90	165.00	1,633.50
10/01D	17463	CS001	R8A	4	DRI	Drilling Time			0.00	2.50		0.00	0.00	0.00
10/01D	17463	CS001	R8A	4	MT	Inactive - Maintenance			0.00	0.50		0.00	0.00	0.00
10/01D	17463	CS001	R8A	4	PS	Inactive - Pre Starts			0.00	0.50		0.00	0.00	0.00
10/01D	17463	CS001	R8A	5	BL	Consumable - Bit Lube			2.00	0.00		2.00	139.30	278.60
10/01D	17463	CS001	R8A	5	CB	Chrome Barrel			9.90	0.00		9.90	3.00	29.70
10/01D	17463	CS001	R8A	5	CR	Consumable - CR650			1.00	0.00		1.00	156.45	156.45
10/01D	17463	CS001	R8A	6	RT	Run / pull rods to clean bit			0.00	6.50		0.00	350.00	0.00
10/01D	17463	CS001	R8A	6	ST	Site travel - N/A			0.00	2.00		0.00	250.00	0.00
10/01N	17464	CS001	R8A	2	NQ	NQ core drilling	918.20	954.20	36.00	0.00		36.00	165.00	5,940.00
10/01N	17464	CS001	R8A	4	BD	Inactive - Breakdown			0.00	1.00		0.00	0.00	0.00
10/01N	17464	CS001	R8A	4	DRI	Drilling Time			0.00	8.50		0.00	0.00	0.00
10/01N	17464	CS001	R8A	4	PS	Inactive - Pre Starts			0.00	0.50		0.00	0.00	0.00
10/01N	17464	CS001	R8A	5	BL	Consumable - Bit Lube			1.00	0.00		1.00	139.30	139.30
10/01N	17464	CS001	R8A	5	CB	Chrome Barrel			36.00	0.00		36.00	3.00	108.00
10/01N	17464	CS001	R8A	5	CR	Consumable - CR650			1.00	0.00		1.00	156.45	156.45
10/01N	17464	CS001	R8A	5	SA	Consumable - Soda Ash			1.00	0.00		1.00	46.24	46.24
10/01N	17464	CS001	R8A	6	ST	Site travel - N/A			0.00	2.00		0.00	250.00	0.00
11/01D	17465	CS001	R8A	2	NQ	NQ core drilling	954.20	1,000.00	45.80	0.00		45.80	165.00	7,557.00
11/01D	17465	CS001	R8A	2	NQ	NQ core drilling	1,000.00	1,002.20	2.20	0.00		2.20	180.00	396.00

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Date Shft	Plod	Hole	Rig	Type	Product	From	To	TotClient	TotCoy.	Serial/CustReference	Qty	Rate	Extension	
11/01D	17465	CS001	R8A	4	DRI	Drilling Time		0.00	9.00		0.00	0.00	0.00	
11/01D	17465	CS001	R8A	4	PS	Inactive - Pre Starts		0.00	0.50		0.00	0.00	0.00	
11/01D	17465	CS001	R8A	5	BL	Consumable - Bit Lube		2.00	0.00		2.00	139.30	278.60	
11/01D	17465	CS001	R8A	5	CB	Chrome Barrel		48.00	0.00		48.00	3.00	144.00	
11/01D	17465	CS001	R8A	5	SA	Consumable - Soda Ash		1.00	0.00		1.00	46.24	46.24	
11/01D	17465	CS001	R8A	6	CO	Flush hole to remove excess cuttings		0.50	0.00		0.50	350.00	175.00	
11/01D	17465	CS001	R8A	6	ST	Site travel - N/A		0.00	2.00		0.00	250.00	0.00	
11/01N	17466	CS001	R8A	2	NQ	NQ core drilling	1,002.20	1,041.20	39.00	0.00		39.00	180.00	7,020.00
11/01N	17466	CS001	R8A	4	DRI	Drilling Time		0.00	7.50		0.00	0.00	0.00	
11/01N	17466	CS001	R8A	4	MT	Inactive - Maintenance		0.00	1.50		0.00	0.00	0.00	
11/01N	17466	CS001	R8A	4	PS	Inactive - Pre Starts		0.00	0.50		0.00	0.00	0.00	
11/01N	17466	CS001	R8A	5	BL	Consumable - Bit Lube		1.00	0.00		1.00	139.30	139.30	
11/01N	17466	CS001	R8A	5	CB	Chrome Barrel		39.00	0.00		39.00	3.00	117.00	
11/01N	17466	CS001	R8A	5	CR	Consumable - CR650		1.00	0.00		1.00	156.45	156.45	
11/01N	17466	CS001	R8A	6	SS	Survey shot/s (per shot)		1.00	0.00		1.00	95.00	95.00	
11/01N	17466	CS001	R8A	6	ST	Site travel - N/A		0.00	2.00		0.00	250.00	0.00	
12/01D	17467	CS001	R8A	2	NQ	NQ core drilling	1,041.20	1,074.20	33.00	0.00		33.00	180.00	5,940.00
12/01D	17467	CS001	R8A	4	DRI	Drilling Time		0.00	8.50		0.00	0.00	0.00	
12/01D	17467	CS001	R8A	4	PS	Inactive - Pre Starts		0.00	0.50		0.00	0.00	0.00	
12/01D	17467	CS001	R8A	5	BL	Consumable - Bit Lube		2.00	0.00		2.00	139.30	278.60	
12/01D	17467	CS001	R8A	5	CB	Chrome Barrel		33.00	0.00		33.00	3.00	99.00	
12/01D	17467	CS001	R8A	5	CR	Consumable - CR650		1.00	0.00		1.00	156.45	156.45	
12/01D	17467	CS001	R8A	6	CO	Flush hole to remove excess cuttings		0.50	0.00		0.50	350.00	175.00	
12/01D	17467	CS001	R8A	6	MM	Mixing muds		0.50	0.00		0.50	350.00	175.00	
12/01D	17467	CS001	R8A	6	ST	Site travel - N/A		0.00	2.00		0.00	250.00	0.00	
12/01N	17468	CS001	R8A	2	NQ	NQ core drilling	1,074.20	1,104.20	30.00	0.00		30.00	180.00	5,400.00
12/01N	17468	CS001	R8A	4	DRI	Drilling Time		0.00	9.00		0.00	0.00	0.00	
12/01N	17468	CS001	R8A	4	PS	Inactive - Pre Starts		0.00	0.50		0.00	0.00	0.00	
12/01N	17468	CS001	R8A	5	BL	Consumable - Bit Lube		1.00	0.00		1.00	139.30	139.30	
12/01N	17468	CS001	R8A	5	CB	Chrome Barrel		30.00	0.00		30.00	3.00	90.00	
12/01N	17468	CS001	R8A	6	CO	Flush hole		0.50	0.00		0.50	350.00	175.00	
12/01N	17468	CS001	R8A	6	ST	Site travel - N/A		0.00	2.00		0.00	250.00	0.00	
13/01D	17469	CS001	R8A	2	NQ	NQ core drilling	1,104.20	1,128.20	24.00	0.00		24.00	180.00	4,320.00
13/01D	17469	CS001	R8A	4	DRI	Drilling Time		0.00	7.50		0.00	0.00	0.00	
13/01D	17469	CS001	R8A	4	MT	Inactive - Maintenance		0.00	0.50		0.00	0.00	0.00	
13/01D	17469	CS001	R8A	4	PS	Inactive - Pre Starts		0.00	0.50		0.00	0.00	0.00	
13/01D	17469	CS001	R8A	5	BL	Consumable - Bit Lube		2.00	0.00		2.00	139.30	278.60	
13/01D	17469	CS001	R8A	5	CB	Chrome Barrel		24.00	0.00		24.00	3.00	72.00	
13/01D	17469	CS001	R8A	5	SA	Consumable - Soda Ash		1.00	0.00		1.00	46.24	46.24	
13/01D	17469	CS001	R8A	6	CO	Condition hole due ground condition		0.50	0.00		0.50	350.00	175.00	
13/01D	17469	CS001	R8A	6	MM	Mixing muds		0.50	0.00		0.50	350.00	175.00	

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Date	Shft	Plod	Hole	Rig	Type	Product	From	To	TotClient	TotCoy.	Serial/CustReference	Qty	Rate	Extension
13/01D	17469	CS001	R8A	6	SS	Survey shot/s (per shot)			1.00	0.00		1.00	95.00	95.00
13/01D	17469	CS001	R8A	6	ST	Site travel - N/A			0.00	2.00		0.00	250.00	0.00
13/01N	17470	CS001	R8A	2	NQ	NQ core drilling	1,128.20	1,149.20	21.00	0.00		21.00	180.00	3,780.00
13/01N	17470	CS001	R8A	4	DRI	Drilling Time			0.00	9.00		0.00	0.00	0.00
13/01N	17470	CS001	R8A	4	PS	Inactive - Pre Starts			0.00	0.50		0.00	0.00	0.00
13/01N	17470	CS001	R8A	5	CB	Chrome Barrel			21.00	0.00		21.00	3.00	63.00
13/01N	17470	CS001	R8A	6	CO	Condition hole due ground condition			0.50	0.00		0.50	350.00	175.00
13/01N	17470	CS001	R8A	6	ST	Site travel - N/A			0.00	2.00		0.00	250.00	0.00
14/01D	17471	CS001	R8A	2	NQ	NQ core drilling	1,149.20	1,164.20	15.00	0.00		15.00	180.00	2,700.00
14/01D	17471	CS001	R8A	4	DRI	Drilling Time			0.00	7.00		0.00	0.00	0.00
14/01D	17471	CS001	R8A	4	PS	Inactive - Pre Starts			0.00	0.50		0.00	0.00	0.00
14/01D	17471	CS001	R8A	5	BL	Consumable - Bit Lube			1.00	0.00		1.00	139.30	139.30
14/01D	17471	CS001	R8A	5	CB	Chrome Barrel			15.00	0.00		15.00	3.00	45.00
14/01D	17471	CS001	R8A	5	CR	Consumable - CR650			1.00	0.00		1.00	156.45	156.45
14/01D	17471	CS001	R8A	6	CO	Condition hole due ground condition			1.00	0.00		1.00	350.00	350.00
14/01D	17471	CS001	R8A	6	SS	Survey shot/s (per shot)			1.00	0.00		1.00	95.00	95.00
14/01D	17471	CS001	R8A	6	ST	Site travel - N/A			0.00	2.00		0.00	250.00	0.00
14/01D	17471	CS001	R8A	6	SU	Start to pack up site			1.00	0.00		1.00	350.00	350.00
14/01N	17472	CS001	R8A	4	PS	Inactive - Pre Starts			0.00	0.50		0.00	0.00	0.00
14/01N	17472	CS001	R8A	6	MO	Move to next hole wait for surveyor			4.50	0.00		4.50	350.00	1,575.00
14/01N	17472	CS001	R8A	6	RT	Run / pull rods EOH			5.00	0.00		5.00	350.00	1,750.00
14/01N	17472	CS001	R8A	6	ST	Site travel - N/A			0.00	2.00		0.00	250.00	0.00
15/01D	17474	CS001	R8A	4	PS	Inactive - Pre Starts			0.00	0.50		0.00	0.00	0.00
15/01D	17474	CS001	R8A	6	MO	Move rig between holes wait surveyor			5.50	0.00		5.50	350.00	1,925.00
15/01D	17474	CS001	R8A	6	RT	HQ E.O.H rod pull			4.00	0.00		4.00	350.00	1,400.00
15/01D	17474	CS001	R8A	6	ST	Site travel - N/A			0.00	2.00		0.00	250.00	0.00
15/01N	17473	CS001	R8A	6	CAMD	Survey camera hire (per day)			15.00	0.00		15.00	110.00	1,650.00
15/01N	17473	CS001	R8A	6	ST	Site travel - N/A			0.00	2.00		0.00	250.00	0.00
15/01N	17473	CS001	R8A	6	SU	Move gear to next site			10.00	0.00		10.00	350.00	3,500.00

Total for Job 168 = \$137,577.67

Total for Rig R8A = \$137,577.67



Techdrill Mining Services Pty Ltd

56 131 658 216

33 Leewood Drive, Orange NSW 2800

Ph: 02 6361 7853 Fx: 02 6361 8076 E: lee-anne.weber@techdrill.com.au

Tax Invoice

Invoice No: 506

Invoice Date: 31/01/2013

Period From: 16/01/2013

To: 31/01/2013

Contract/Ref:

Job: 168

Rig: R8A

Page: 1

Customer: SA Ludi Pty Ltd
10/237 Wakefield Street
Adelaide SA 5000

CstRef-Hole	Product	From	To	Qty	per	Rate	Extension
CS001	PS	Inactive - Pre Starts		0.00	Hour	0.00	0.00
CS001	CEM	Mix/drill cement,cementing/grouting		6.00	Hour	350.00	2,100.00
CS001	MO	Move rig between holes		13.50	Hour	350.00	4,725.00
CS001	ST	Site travel		1.50	Hour	250.00	375.00
CS001	SU	Rig set up / pull down		12.00	Hour	350.00	4,200.00
CS001	WTC	Water cartage		8.00	Hour	140.00	1,120.00
CS002	HQ	HQ core drilling	20.00 200.00	180.00	Metres	135.00	24,300.00
CS002	HQ	HQ core drilling	200.00 400.00	200.00	Metres	145.00	29,000.00
CS002	HQ	HQ core drilling	400.00 594.40	194.40	Metres	155.00	30,132.00
CS002	BD	Fix water truck and get to site		0.00	Hour	0.00	0.00
CS002	BD	Inactive - Breakdown		0.00	Hour	0.00	0.00
CS002	BD	Rig inoperable due computer issues		0.00	Hour	0.00	0.00
CS002	DRI	Drilling Time		0.00	Hour	0.00	0.00
CS002	MT	Inactive - Maintenance		0.00	Hour	0.00	0.00
CS002	MT	Maintenance. Fix radiator hose		0.00	Hour	0.00	0.00
CS002	PS	Inactive - Pre Starts		0.00	Hour	0.00	0.00
CS002	WOW	Waiting on drilling water		8.00	Hour	250.00	2,000.00
CS002	WX	Shutdown for lightning		2.00	Hour	250.00	500.00
CS002	BL	Consumable - Bit Lube		15.00	Each	139.30	2,089.50
CS002	CB	Chrome Barrel		574.40	Metres	3.00	1,723.20
CS002	CR	Consumable - CR650		5.00	Each	156.45	782.25
CS002	RG	Consumable - Rod Grease		1.00	Each	199.94	199.94
CS002	CAMD	Survey camera hire (per day)		12.00	Day	110.00	1,320.00
CS002	CO	Condition hole due ground condition		1.00	Hour	350.00	350.00
CS002	ESR	End of shift rotation travel time		0.00	Hour	0.00	0.00
CS002	FI	Fishing downhole for equipment		0.00	Hour	350.00	0.00
CS002	MM	Mixing muds		6.00	Hour	350.00	2,100.00
CS002	OT	Unbog truck		0.00	Hour	1.00	0.00
CS002	RT	Run / pull rods		2.00	Hour	350.00	700.00
CS002	RT	Run / pull rods for bit change		2.00	Hour	350.00	700.00
CS002	SS	Survey shot/s (per shot)		6.00	Each	95.00	570.00
CS002	ST	Site travel		30.00	Hour	250.00	7,500.00
CS002	STB	Filling up sumps		4.50	Hour	250.00	1,125.00
CS002	SU	Set up plastic, line sumps		1.00	Hour	350.00	350.00
CS002	WTC	Water cartage		6.50	Hour	140.00	910.00

Sub-total: \$118,871.89

GST: \$11,887.19

Invoice total: \$130,759.08

Direct Deposit Details:

Bank: BSB: 083-144 A/C: 174627284

Acc Name: Techdrill Services

continued on page 2

CstRef-Hole	Product	From	To	Qty	per	Rate	Extension
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Invoice Summary

Invoice No:	Invoice Date:	Contract/Ref:	Drill Site(s):	Job:	Rig:
506	31/01/2013		Williams Creek William Creek	168	R8A
Product	Qty	per	Rate	Extension	
HQ HQ core drilling	180.00	Metres	135.00	24,300.00	
HQ HQ core drilling	200.00	Metres	145.00	29,000.00	
HQ HQ core drilling	194.40	Metres	155.00	30,132.00	
BD Fix water truck and get to site	0.00	Hour	0.00	0.00	
DRI Drilling Time	0.00	Hour	0.00	0.00	
MT Inactive - Maintenance	0.00	Hour	0.00	0.00	
PS Inactive - Pre Starts	0.00	Hour	0.00	0.00	
WOW Waiting on drilling water	8.00	Hour	250.00	2,000.00	
WX Shutdown for lightning	2.00	Hour	250.00	500.00	
BL Consumable - Bit Lube	15.00	Each	139.30	2,089.50	
CB Chrome Barrel	574.40	Metres	3.00	1,723.20	
CR Consumable - CR650	5.00	Each	156.45	782.25	
RG Consumable - Rod Grease	1.00	Each	199.94	199.94	
CAMD Survey camera hire (per day)	12.00	Day	110.00	1,320.00	
CEM Mix/drill	6.00	Hour	350.00	2,100.00	
CO Condition hole due ground	1.00	Hour	350.00	350.00	
MM Mixing muds	6.00	Hour	350.00	2,100.00	
MO Move rig between holes	13.50	Hour	350.00	4,725.00	
RT Run / pull rods	4.00	Hour	350.00	1,400.00	
SS Survey shot/s (per shot)	6.00	Each	95.00	570.00	
ST Site travel	31.50	Hour	250.00	7,875.00	
STB Filling up sumps	4.50	Hour	250.00	1,125.00	
SU Rig set up / pull down	13.00	Hour	350.00	4,550.00	
WTC Water cartage	14.50	Hour	140.00	2,030.00	
sub-Total:				118,871.89	
GST				11,887.19	
Invoice				\$130,759.08	

Direct Deposit Details:

Bank: BSB: 083-144 A/C: 174627284
Acc Name: Techdrill Services

Summary of All Invoices this run: as at 6/02/2013 1:23:43 PM

Inv. No.	Customer	Net	GST	Total
506	SA Ludi Pty Ltd	118,871.89	11,887.19	130,759.08
For Job=168, Rig=R8A, Hole=<ALL>		118,871.89	11,887.19	130,759.08

Direct Deposit Details: Bank: BSB: 083-144 A/C: 174627284 Acc Name: Techdrill Services
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Job: 168

Customer: LUDI SA Ludi Pty Ltd

Rig: R8A

Date Shft	Plod	Hole	Rig	Type	Product	From	To	TotClient	TotCoy.	Serial/CustReference	Qty	Rate	Extension
16/01D	17475	CS001	R8A	6	ST	Site travel			0.00	2.00	0.00	250.00	0.00
16/01D	17475	CS001	R8A	6	SU	Rig set up / pull down			10.00	0.00	10.00	350.00	3,500.00
16/01N	17476	CS001	R8A	4	PS	Inactive - Pre Starts			0.00	0.50	0.00	0.00	0.00
16/01N	17476	CS001	R8A	6	CEM	Mix/drill cement,cementing/grouting			6.00	0.00	6.00	350.00	2,100.00
16/01N	17476	CS001	R8A	6	MO	Move rig between holes			3.50	3.00	3.50	350.00	1,225.00
16/01N	17476	CS001	R8A	6	ST	Site travel			0.00	2.00	0.00	250.00	0.00
17/01D	17477	CS001	R8A	6	MO	Move rig between holes			10.00	0.00	10.00	350.00	3,500.00
17/01D	17477	CS001	R8A	6	SU	Rig set up / pull down			2.00	0.00	2.00	350.00	700.00
17/01N	17478	CS001	R8A	4	PS	Inactive - Pre Starts			0.00	0.50	0.00	0.00	0.00
17/01N	17478	CS001	R8A	6	ST	Site travel			1.50	2.00	1.50	250.00	375.00
17/01N	17478	CS001	R8A	6	WTC	Water cartage			8.00	0.00	8.00	140.00	1,120.00
18/01D	17479	CS002	R8A	2	HQ	HQ core drilling	20.00	44.20	24.20	0.00	24.20	135.00	3,267.00
18/01D	17479	CS002	R8A	4	DRI	Drilling Time			0.00	3.00	0.00	0.00	0.00
18/01D	17479	CS002	R8A	5	BL	Consumable - Bit Lube			1.00	0.00	1.00	139.30	139.30
18/01D	17479	CS002	R8A	5	CB	Chrome Barrel			24.20	0.00	24.20	3.00	72.60
18/01D	17479	CS002	R8A	5	CR	Consumable - CR650			1.00	0.00	1.00	156.45	156.45
18/01D	17479	CS002	R8A	6	CO	Condition hole due ground condition			1.00	0.00	1.00	350.00	350.00
18/01D	17479	CS002	R8A	6	MM	Mixing muds			0.50	0.00	0.50	350.00	175.00
18/01D	17479	CS002	R8A	6	RT	Run / pull rods			1.00	0.00	1.00	350.00	350.00
18/01D	17479	CS002	R8A	6	ST	Site travel			1.50	2.00	1.50	250.00	375.00
18/01D	17479	CS002	R8A	6	SU	Set up plastic, line sumps			1.00	0.00	1.00	350.00	350.00
18/01D	17479	CS002	R8A	6	WTC	Water cartage			2.00	0.00	2.00	140.00	280.00
18/01N	17480	CS002	R8A	2	HQ	HQ core drilling	44.20	48.40	4.20	0.00	4.20	135.00	567.00
18/01N	17480	CS002	R8A	4	DRI	Drilling Time			0.00	1.00	0.00	0.00	0.00
18/01N	17480	CS002	R8A	4	MT	Inactive - Maintenance			0.00	2.00	0.00	0.00	0.00
18/01N	17480	CS002	R8A	4	PS	Inactive - Pre Starts			0.00	0.50	0.00	0.00	0.00
18/01N	17480	CS002	R8A	4	WX	Shutdown for lightning			2.00	0.00	2.00	250.00	500.00
18/01N	17480	CS002	R8A	5	BL	Consumable - Bit Lube			1.00	0.00	1.00	139.30	139.30
18/01N	17480	CS002	R8A	5	CB	Chrome Barrel			4.20	0.00	4.20	3.00	12.60
18/01N	17480	CS002	R8A	5	CR	Consumable - CR650			1.00	0.00	1.00	156.45	156.45
18/01N	17480	CS002	R8A	5	RG	Consumable - Rod Grease			1.00	0.00	1.00	199.94	199.94
18/01N	17480	CS002	R8A	6	RT	Run / pull rods			1.00	0.00	1.00	350.00	350.00
18/01N	17480	CS002	R8A	6	ST	Site travel			1.50	2.00	1.50	250.00	375.00

Proforma Invoices

as at 6/02/2013 1:23:44 PM

Date Shft	Plod	Hole	Rig	Type	Product	From	To	TotClient	TotCoy.	Serial/CustReference	Qty	Rate	Extension
18/01N	17480	CS002	R8A	6	WTC	Water cartage			1.00	0.00	1.00	140.00	140.00
19/01D	17481	CS002	R8A	2	HQ	HQ core drilling	48.40	84.40	36.00	0.00	36.00	135.00	4,860.00
19/01D	17481	CS002	R8A	4	BD	Inactive - Breakdown			0.00	0.50	0.00	0.00	0.00
19/01D	17481	CS002	R8A	4	DRI	Drilling Time			0.00	7.00	0.00	0.00	0.00
19/01D	17481	CS002	R8A	4	PS	Inactive - Pre Starts			0.00	0.50	0.00	0.00	0.00
19/01D	17481	CS002	R8A	5	CB	Chrome Barrel			36.00	0.00	36.00	3.00	108.00
19/01D	17481	CS002	R8A	6	MM	Mixing muds			0.50	0.00	0.50	350.00	175.00
19/01D	17481	CS002	R8A	6	ST	Site travel			1.50	2.00	1.50	250.00	375.00
19/01N	17482	CS002	R8A	2	HQ	HQ core drilling	84.40	120.40	36.00	0.00	36.00	135.00	4,860.00
19/01N	17482	CS002	R8A	4	DRI	Drilling Time			0.00	6.00	0.00	0.00	0.00
19/01N	17482	CS002	R8A	5	BL	Consumable - Bit Lube			1.00	0.00	1.00	139.30	139.30
19/01N	17482	CS002	R8A	5	CB	Chrome Barrel			36.00	0.00	36.00	3.00	108.00
19/01N	17482	CS002	R8A	6	SS	Survey shot/s (per shot)			1.00	0.00	1.00	95.00	95.00
19/01N	17482	CS002	R8A	6	ST	Site travel			1.50	2.00	1.50	250.00	375.00
19/01N	17482	CS002	R8A	6	WTC	Water cartage			1.50	0.00	1.50	140.00	210.00
20/01D	17483	CS002	R8A	2	HQ	HQ core drilling	120.40	156.40	36.00	0.00	36.00	135.00	4,860.00
20/01D	17483	CS002	R8A	4	DRI	Drilling Time			0.00	7.00	0.00	0.00	0.00
20/01D	17483	CS002	R8A	4	MT	Maintenance. Fix radiator hose			0.00	0.50	0.00	0.00	0.00
20/01D	17483	CS002	R8A	4	PS	Inactive - Pre Starts			0.00	0.50	0.00	0.00	0.00
20/01D	17483	CS002	R8A	5	CB	Chrome Barrel			36.00	0.00	36.00	3.00	108.00
20/01D	17483	CS002	R8A	6	MM	Mixing muds			0.50	0.00	0.50	350.00	175.00
20/01D	17483	CS002	R8A	6	ST	Site travel			1.50	2.00	1.50	250.00	375.00
20/01N	17485	CS002	R8A	2	HQ	HQ core drilling	156.40	162.40	6.00	0.00	6.00	135.00	810.00
20/01N	17485	CS002	R8A	4	DRI	Drilling Time			0.00	1.00	0.00	0.00	0.00
20/01N	17485	CS002	R8A	4	PS	Inactive - Pre Starts			0.00	0.50	0.00	0.00	0.00
20/01N	17485	CS002	R8A	5	CB	Chrome Barrel			6.00	0.00	6.00	3.00	18.00
20/01N	17485	CS002	R8A	6	OT	Unbog truck			0.00	5.00	0.00	1.00	0.00
20/01N	17485	CS002	R8A	6	ST	Site travel			1.50	2.00	1.50	250.00	375.00
20/01N	17485	CS002	R8A	6	WTC	Water cartage			2.00	0.00	2.00	140.00	280.00
21/01D	17484	CS002	R8A	2	HQ	HQ core drilling	162.40	198.40	36.00	0.00	36.00	135.00	4,860.00
21/01D	17484	CS002	R8A	4	DRI	Drilling Time			0.00	5.50	0.00	0.00	0.00
21/01D	17484	CS002	R8A	4	PS	Inactive - Pre Starts			0.00	0.50	0.00	0.00	0.00
21/01D	17484	CS002	R8A	5	CB	Chrome Barrel			36.00	0.00	36.00	3.00	108.00
21/01D	17484	CS002	R8A	5	CR	Consumable - CR650			1.00	0.00	1.00	156.45	156.45
21/01D	17484	CS002	R8A	6	MM	Mixing muds			0.50	0.00	0.50	350.00	175.00
21/01D	17484	CS002	R8A	6	RT	Run / pull rods for bit change			2.00	0.00	2.00	350.00	700.00
21/01D	17484	CS002	R8A	6	ST	Site travel			1.50	2.00	1.50	250.00	375.00
21/01N	17486	CS002	R8A	4	PS	Inactive - Pre Starts			0.00	0.50	0.00	0.00	0.00
21/01N	17486	CS002	R8A	4	WOW	Waiting on drilling water			8.00	0.00	8.00	250.00	2,000.00
21/01N	17486	CS002	R8A	6	ST	Site travel			1.50	2.00	1.50	250.00	375.00
22/01D	17487	CS002	R8A	2	HQ	HQ core drilling	198.40	200.00	1.60	0.00	1.60	135.00	216.00

Proforma Invoices

as at 6/02/2013 1:23:45 PM

Date Shft	Plod	Hole	Rig	Type	Product	From	To	TotClient	TotCoy.	Serial/CustReference	Qty	Rate	Extension	
22/01D	17487	CS002	R8A	2	HQ	HQ core drilling	200.00	222.40	22.40	0.00		22.40	145.00	3,248.00
22/01D	17487	CS002	R8A	4	DRI	Drilling Time			0.00	3.00		0.00	0.00	0.00
22/01D	17487	CS002	R8A	4	PS	Inactive - Pre Starts			0.00	0.50		0.00	0.00	0.00
22/01D	17487	CS002	R8A	5	CB	Chrome Barrel			24.00	0.00		24.00	3.00	72.00
22/01D	17487	CS002	R8A	6	MM	Mixing muds			0.50	0.00		0.50	350.00	175.00
22/01D	17487	CS002	R8A	6	ST	Site travel			1.50	2.00		1.50	250.00	375.00
22/01D	17487	CS002	R8A	6	STB	Filling up sumps			4.50	0.00		4.50	250.00	1,125.00
22/01N	17488	CS002	R8A	2	HQ	HQ core drilling	222.40	264.40	42.00	0.00		42.00	145.00	6,090.00
22/01N	17488	CS002	R8A	4	DRI	Drilling Time			0.00	7.50		0.00	0.00	0.00
22/01N	17488	CS002	R8A	4	PS	Inactive - Pre Starts			0.00	0.50		0.00	0.00	0.00
22/01N	17488	CS002	R8A	5	BL	Consumable - Bit Lube			1.00	0.00		1.00	139.30	139.30
22/01N	17488	CS002	R8A	5	CB	Chrome Barrel			42.00	0.00		42.00	3.00	126.00
22/01N	17488	CS002	R8A	5	CR	Consumable - CR650			1.00	0.00		1.00	156.45	156.45
22/01N	17488	CS002	R8A	6	SS	Survey shot/s (per shot)			1.00	0.00		1.00	95.00	95.00
22/01N	17488	CS002	R8A	6	ST	Site travel			1.50	2.00		1.50	250.00	375.00
23/01D	17489	CS002	R8A	2	HQ	HQ core drilling	264.40	306.40	42.00	0.00		42.00	145.00	6,090.00
23/01D	17489	CS002	R8A	4	DRI	Drilling Time			0.00	7.50		0.00	0.00	0.00
23/01D	17489	CS002	R8A	4	PS	Inactive - Pre Starts			0.00	0.50		0.00	0.00	0.00
23/01D	17489	CS002	R8A	5	CB	Chrome Barrel			42.00	0.00		42.00	3.00	126.00
23/01D	17489	CS002	R8A	6	MM	Mixing muds			0.50	0.00		0.50	350.00	175.00
23/01D	17489	CS002	R8A	6	ST	Site travel			1.50	2.00		1.50	250.00	375.00
23/01N	17490	CS002	R8A	2	HQ	HQ core drilling	306.40	330.40	24.00	0.00		24.00	145.00	3,480.00
23/01N	17490	CS002	R8A	4	DRI	Drilling Time			0.00	3.00		0.00	0.00	0.00
23/01N	17490	CS002	R8A	4	PS	Inactive - Pre Starts			0.00	0.50		0.00	0.00	0.00
23/01N	17490	CS002	R8A	5	CB	Chrome Barrel			24.00	0.00		24.00	3.00	72.00
23/01N	17490	CS002	R8A	6	ESR	End of shift rotation travel time			0.00	5.00		0.00	0.00	0.00
23/01N	17490	CS002	R8A	6	ST	Site travel			1.50	2.00		1.50	250.00	375.00
24/01D	17491	CS002	R8A	2	HQ	HQ core drilling	330.40	342.40	12.00	0.00		12.00	145.00	1,740.00
24/01D	17491	CS002	R8A	4	BD	Inactive - Breakdown			0.00	2.50		0.00	0.00	0.00
24/01D	17491	CS002	R8A	4	DRI	Drilling Time			0.00	4.50		0.00	0.00	0.00
24/01D	17491	CS002	R8A	4	PS	Inactive - Pre Starts			0.00	0.50		0.00	0.00	0.00
24/01D	17491	CS002	R8A	5	BL	Consumable - Bit Lube			2.00	0.00		2.00	139.30	278.60
24/01D	17491	CS002	R8A	5	CB	Chrome Barrel			12.00	0.00		12.00	3.00	36.00
24/01D	17491	CS002	R8A	6	FI	Fishing downhole for equipment			0.00	1.00		0.00	350.00	0.00
24/01D	17491	CS002	R8A	6	ST	Site travel			1.50	2.00		1.50	250.00	375.00
24/01N	17492	CS002	R8A	2	HQ	HQ core drilling	342.40	386.50	44.10	0.00		44.10	145.00	6,394.50
24/01N	17492	CS002	R8A	4	DRI	Drilling Time			0.00	7.00		0.00	0.00	0.00
24/01N	17492	CS002	R8A	4	PS	Inactive - Pre Starts			0.00	0.50		0.00	0.00	0.00
24/01N	17492	CS002	R8A	5	BL	Consumable - Bit Lube			1.00	0.00		1.00	139.30	139.30
24/01N	17492	CS002	R8A	5	CB	Chrome Barrel			44.10	0.00		44.10	3.00	132.30
24/01N	17492	CS002	R8A	6	MM	Mixing muds			0.50	0.00		0.50	350.00	175.00

Proforma Invoices

as at 6/02/2013 1:23:45 PM

Date Shft	Plod	Hole	Rig	Type	Product	From	To	TotClient	TotCoy.	Serial/CustReference	Qty	Rate	Extension
24/01N	17492	CS002	R8A	6	SS	Survey shot/s (per shot)		1.00	0.00		1.00	95.00	95.00
24/01N	17492	CS002	R8A	6	ST	Site travel		1.50	2.00		1.50	250.00	375.00
25/01D	17493	CS002	R8A	2	HQ	HQ core drilling	386.50	400.00	13.50	0.00	13.50	145.00	1,957.50
25/01D	17493	CS002	R8A	2	HQ	HQ core drilling	400.00	423.40	23.40	0.00	23.40	155.00	3,627.00
25/01D	17493	CS002	R8A	4	DRI	Drilling Time		0.00	7.50		0.00	0.00	0.00
25/01D	17493	CS002	R8A	4	PS	Inactive - Pre Starts		0.00	0.50		0.00	0.00	0.00
25/01D	17493	CS002	R8A	5	BL	Consumable - Bit Lube		2.00	0.00		2.00	139.30	278.60
25/01D	17493	CS002	R8A	5	CB	Chrome Barrel		36.90	0.00		36.90	3.00	110.70
25/01D	17493	CS002	R8A	6	MM	Mixing muds		0.50	0.00		0.50	350.00	175.00
25/01D	17493	CS002	R8A	6	ST	Site travel		1.50	2.00		1.50	250.00	375.00
25/01N	17494	CS002	R8A	2	HQ	HQ core drilling	423.40	462.40	39.00	0.00	39.00	155.00	6,045.00
25/01N	17494	CS002	R8A	4	DRI	Drilling Time		0.00	7.00		0.00	0.00	0.00
25/01N	17494	CS002	R8A	4	PS	Inactive - Pre Starts		0.00	0.50		0.00	0.00	0.00
25/01N	17494	CS002	R8A	5	BL	Consumable - Bit Lube		1.00	0.00		1.00	139.30	139.30
25/01N	17494	CS002	R8A	5	CB	Chrome Barrel		39.00	0.00		39.00	3.00	117.00
25/01N	17494	CS002	R8A	6	MM	Mixing muds		0.50	0.00		0.50	350.00	175.00
25/01N	17494	CS002	R8A	6	SS	Survey shot/s (per shot)		1.00	0.00		1.00	95.00	95.00
25/01N	17494	CS002	R8A	6	ST	Site travel		1.50	2.00		1.50	250.00	375.00
26/01D	17495	CS002	R8A	2	HQ	HQ core drilling	462.40	492.40	30.00	0.00	30.00	155.00	4,650.00
26/01D	17495	CS002	R8A	4	BD	Fix water truck and get to site		0.00	2.00		0.00	0.00	0.00
26/01D	17495	CS002	R8A	4	DRI	Drilling Time		0.00	5.50		0.00	0.00	0.00
26/01D	17495	CS002	R8A	4	PS	Inactive - Pre Starts		0.00	0.50		0.00	0.00	0.00
26/01D	17495	CS002	R8A	5	BL	Consumable - Bit Lube		2.00	0.00		2.00	139.30	278.60
26/01D	17495	CS002	R8A	5	CB	Chrome Barrel		30.00	0.00		30.00	3.00	90.00
26/01D	17495	CS002	R8A	6	MM	Mixing muds		0.50	0.00		0.50	350.00	175.00
26/01D	17495	CS002	R8A	6	ST	Site travel		1.50	2.00		1.50	250.00	375.00
26/01N	17496	CS002	R8A	2	HQ	HQ core drilling	492.40	531.40	39.00	0.00	39.00	155.00	6,045.00
26/01N	17496	CS002	R8A	4	DRI	Drilling Time		0.00	7.00		0.00	0.00	0.00
26/01N	17496	CS002	R8A	4	PS	Inactive - Pre Starts		0.00	0.50		0.00	0.00	0.00
26/01N	17496	CS002	R8A	5	BL	Consumable - Bit Lube		1.00	0.00		1.00	139.30	139.30
26/01N	17496	CS002	R8A	5	CB	Chrome Barrel		39.00	0.00		39.00	3.00	117.00
26/01N	17496	CS002	R8A	6	MM	Mixing muds		0.50	0.00		0.50	350.00	175.00
26/01N	17496	CS002	R8A	6	SS	Survey shot/s (per shot)		1.00	0.00		1.00	95.00	95.00
26/01N	17496	CS002	R8A	6	ST	Site travel		1.50	2.00		1.50	250.00	375.00
27/01D	17497	CS002	R8A	4	BD	Rig inoperable due computer issues		0.00	8.00		0.00	0.00	0.00
27/01D	17497	CS002	R8A	4	PS	Inactive - Pre Starts		0.00	0.50		0.00	0.00	0.00
27/01D	17497	CS002	R8A	6	ST	Site travel		0.00	3.50		0.00	250.00	0.00
27/01N	17498	CS002	R8A	4	BD	Inactive - Breakdown		0.00	8.00		0.00	0.00	0.00
27/01N	17498	CS002	R8A	4	PS	Inactive - Pre Starts		0.00	0.50		0.00	0.00	0.00
27/01N	17498	CS002	R8A	6	ST	Site travel		0.00	3.50		0.00	250.00	0.00
28/01D	17499	CS002	R8A	4	BD	Inactive - Breakdown		0.00	12.00		0.00	0.00	0.00

Proforma Invoices

as at 6/02/2013 1:23:45 PM

Date	Shft	Plod	Hole	Rig	Type	Product	From	To	TotClient	TotCoy.	Serial/CustReference	Qty	Rate	Extension
28/01N	17500	CS002	R8A	4	BD	Inactive - Breakdown			0.00	12.00		0.00	0.00	0.00
29/01D	9103	CS002	R8A	4	BD	Inactive - Breakdown			0.00	12.00		0.00	0.00	0.00
29/01N	17402	CS002	R8A	4	BD	Inactive - Breakdown			0.00	12.00		0.00	0.00	0.00
30/01D	17401	CS002	R8A	4	BD	Inactive - Breakdown			0.00	8.00		0.00	0.00	0.00
30/01D	17401	CS002	R8A	4	PS	Inactive - Pre Starts			0.00	0.50		0.00	0.00	0.00
30/01D	17401	CS002	R8A	6	ST	Site travel			0.00	3.50		0.00	250.00	0.00
30/01N	17403	CS002	R8A	4	BD	Inactive - Breakdown			0.00	12.00		0.00	0.00	0.00
31/01D	17404	CS002	R8A	2	HQ	HQ core drilling	531.40	564.40	33.00	0.00		33.00	155.00	5,115.00
31/01D	17404	CS002	R8A	4	DRI	Drilling Time			0.00	7.00		0.00	0.00	0.00
31/01D	17404	CS002	R8A	4	MT	Inactive - Maintenance			0.00	1.00		0.00	0.00	0.00
31/01D	17404	CS002	R8A	4	PS	Inactive - Pre Starts			0.00	0.50		0.00	0.00	0.00
31/01D	17404	CS002	R8A	5	BL	Consumable - Bit Lube			2.00	0.00		2.00	139.30	278.60
31/01D	17404	CS002	R8A	5	CB	Chrome Barrel			33.00	0.00		33.00	3.00	99.00
31/01D	17404	CS002	R8A	5	CR	Consumable - CR650			1.00	0.00		1.00	156.45	156.45
31/01D	17404	CS002	R8A	6	ST	Site travel			1.50	2.00		1.50	250.00	375.00
31/01N	17405	CS002	R8A	2	HQ	HQ core drilling	564.40	594.40	30.00	0.00		30.00	155.00	4,650.00
31/01N	17405	CS002	R8A	4	DRI	Drilling Time			0.00	7.00		0.00	0.00	0.00
31/01N	17405	CS002	R8A	4	PS	Inactive - Pre Starts			0.00	0.50		0.00	0.00	0.00
31/01N	17405	CS002	R8A	5	CB	Chrome Barrel			30.00	0.00		30.00	3.00	90.00
31/01N	17405	CS002	R8A	6	CAMD	Survey camera hire (per day)			12.00	4.00		12.00	110.00	1,320.00
31/01N	17405	CS002	R8A	6	MM	Mixing muds			0.50	0.00		0.50	350.00	175.00
31/01N	17405	CS002	R8A	6	SS	Survey shot/s (per shot)			1.00	0.00		1.00	95.00	95.00
31/01N	17405	CS002	R8A	6	ST	Site travel			1.50	2.00		1.50	250.00	375.00

Total for Job 168 = \$118,871.89

Total for Rig R8A = \$118,871.89



Techdrill Mining Services Pty Ltd

56 131 658 216

33 Leewood Drive, Orange NSW 2800

Ph: 02 6361 7853 Fx: 02 6361 8076 E: lee-anne.weber@techdrill.com.au

Tax Invoice

Invoice No: 508

Invoice Date: 15/02/2013

Period From: 1/02/2013

To: 15/02/2013

Customer: SA Ludi Pty Ltd
10/237 Wakefield Street
Adelaide SA 5000

Contract/Ref:

Job: 168

Rig: R8A

Page: 1

CstRef-Hole	Product	From	To	Qty	per	Rate	Extension
CS001	GRT	Cement for grouting (Hole CS001)		1.00	Unit	2,265.60	2,265.60
CS002	HQ	594.40	600.00	5.60	Metres	155.00	868.00
CS002	HQ	600.00	726.20	126.20	Metres	165.00	20,823.00
CS002	NQ	726.20	800.00	73.80	Metres	155.00	11,439.00
CS002	NQ	800.00	810.40	10.40	Metres	165.00	1,716.00
CS002	NQ	814.60	1,000.00	185.40	Metres	165.00	30,591.00
CS002	NQ	1,000.00	1,143.20	143.20	Metres	180.00	25,776.00
CS002	NQ	810.40	814.60	4.20	Metres	165.00	693.00
CS002	NQ	1,143.20	1,167.20	24.00	Metres	180.00	4,320.00
CS002	BD	Inactive - Breakdown		0.00	Hour	0.00	0.00
CS002	DRI	Drilling Time		0.00	Hour	0.00	0.00
CS002	MT	Inactive - Maintenance		0.00	Hour	0.00	0.00
CS002	MT	Inactive - Maintenance for LV		0.00	Hour	0.00	0.00
CS002	PS	Inactive - Pre Starts		0.00	Hour	0.00	0.00
CS002	WX	Shut down for lightning		2.00	Hour	250.00	500.00
CS002	BL	Consumable - Bit Lube		16.00	Each	139.30	2,228.80
CS002	CB	Chrome Barrel		572.80	Metres	3.00	1,718.40
CS002	CR	Consumable - CR650		3.00	Each	156.45	469.35
CS002	DAR	Consumable - Darby Plug		2.00	Each	30.00	60.00
CS002	GRT	Cement for grouting (Hole CS002)		1.00	Unit	2,265.60	2,265.60
CS002	RG	Consumable - Rod Grease		1.00	Each	199.94	199.94
CS002	VAN	Consumables - Van Ruth Plug		1.00	Unit	400.00	400.00
CS002	CAMD	Survey camera hire (per day)		13.00	Day	110.00	1,430.00
CS002	CD	Client delay. Logging NQ part of hole		10.50	Hour	250.00	2,625.00
CS002	CD	Logging HQ part of hole		12.00	Hour	250.00	3,000.00
CS002	CEM	Mix/drill cement, cementing/grouting		6.50	Hour	350.00	2,275.00
CS002	CO	Condition hole due ground condition		5.00	Hour	350.00	1,750.00
CS002	CO	Flush hole to remove excess cuttings		0.50	Hour	350.00	175.00
CS002	DEMOB	Demobilisation from Robxy Downs		1.00	Unit	6,000.00	6,000.00
CS002	ESR	End of shift rotation travel time		0.00	Hour	0.00	0.00
CS002	FI	Free HQ casing		1.00	Hour	350.00	350.00
CS002	MM	Mixing muds		1.50	Hour	350.00	525.00
CS002	MO	Move equipment back to bore		1.50	Hour	350.00	525.00
CS002	RT	(HR) Run / pull rods		3.00	Hour	350.00	1,050.00
CS002	RT	Pull HQ casing		4.00	Hour	350.00	1,400.00
CS002	RT	Pull HQ rods & case off		7.50	Hour	350.00	2,625.00
CS002	RT	Pull rods to check bit		3.00	Hour	350.00	1,050.00
CS002	RT	Run NQ in		5.00	Hour	350.00	1,750.00
CS002	RT	Run in NQ rods		4.00	Hour	350.00	1,400.00
CS002	SS	Survey shot/s (per shot)		2.00	Each	95.00	190.00
CS002	ST	Site travel		34.50	Hour	250.00	8,625.00
CS002	STB	Load truck ready for demob		6.00	Hour	250.00	1,500.00
CS002	STB	Offsider unfit to work		0.00	Hour	250.00	0.00
CS002	SU	Rig down, pack up and prep for move		2.00	Hour	350.00	700.00

Direct Deposit Details:

Bank: BSB: 083-144 A/C: 174627284

Acc Name: Techdrill Services

continued on page 2

CstRef-Hole	Product	From	To	Qty	per	Rate	Extension
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Sub-total: \$145,278.69
 GST: \$14,527.87
 Invoice total: \$159,806.56

Invoice Summary

Invoice No: 508		Invoice Date: 15/02/2013		Contract/Ref: --		Job: 168		Rig: R8A	
Purchase Ord: --		Approval No: --		Drill Site(s): William Creek		Ref-1: --		Ref-2: --	
Product		Qty		per		Rate		Extension	
HQ	HQ core drilling	5.60	Metres			155.00	868.00		
HQ	HQ core drilling	126.20	Metres			165.00	20,823.00		
NQ	NQ core drilling	73.80	Metres			155.00	11,439.00		
NQ	NQ core drilling	200.00	Metres			165.00	33,000.00		
NQ	NQ core drilling	167.20	Metres			180.00	30,096.00		
BD	Inactive - Breakdown	0.00	Hour			0.00	0.00		
DRI	Drilling Time	0.00	Hour			0.00	0.00		
MT	Inactive - Maintenance	0.00	Hour			0.00	0.00		
PS	Inactive - Pre Starts	0.00	Hour			0.00	0.00		
WX	Shut down for lightning	2.00	Hour			250.00	500.00		
BL	Consumable - Bit Lube	16.00	Each			139.30	2,228.80		
CB	Chrome Barrel	572.80	Metres			3.00	1,718.40		
CR	Consumable - CR650	3.00	Each			156.45	469.35		
DAR	Consumable - Darby Plug	2.00	Each			30.00	60.00		
GRT	Cement for grouting (Hole	2.00	Unit			2,265.60	4,531.20		
RG	Consumable - Rod Grease	1.00	Each			199.94	199.94		
VAN	Consumables - Van Ruth Plug	1.00	Unit			400.00	400.00		
CAMD	Survey camera hire (per day)	13.00	Day			110.00	1,430.00		
CD	Client delay. Logging NQ part	22.50	Hour			250.00	5,625.00		
CEM	Mix/drill	6.50	Hour			350.00	2,275.00		
CO	Condition hole due ground	5.50	Hour			350.00	1,925.00		
DEMOB	Demobilisation from Robxy	1.00	Unit			6,000.00	6,000.00		
FI	Free HQ casing	1.00	Hour			350.00	350.00		
MM	Mixing muds	1.50	Hour			350.00	525.00		
MO	Move equipment back to bore	1.50	Hour			350.00	525.00		
RT	(HR) Run / pull rods	26.50	Hour			350.00	9,275.00		
SS	Survey shot/s (per shot)	2.00	Each			95.00	190.00		
ST	Site travel	34.50	Hour			250.00	8,625.00		
STB	Load truck ready for demob	6.00	Hour			250.00	1,500.00		
SU	Rig down, pack up and prep for	2.00	Hour			350.00	700.00		

sub-Total: 145,278.69
 GST 14,527.87
 Invoice \$159,806.56

Direct Deposit Details:
 Bank: BSB: 083-144 A/C: 174627284
 Acc Name: Techdrill Services

Job: 168

Customer: LUDI SA Ludi Pty Ltd

Rig: R8A

Date Shft	Plod	Hole	Rig	Type	Product	From	To	TotClient	TotCoy.	Serial/CustReference	Qty	Rate	Extension	
01/02D	17406	CS002	R8A	2	HQ	HQ core drilling	594.40	600.00	5.60	0.00		5.60	155.00	868.00
01/02D	17406	CS002	R8A	2	HQ	HQ core drilling	600.00	642.40	42.40	0.00		42.40	165.00	6,996.00
01/02D	17406	CS002	R8A	4	DRI	Drilling Time			0.00	7.50		0.00	0.00	0.00
01/02D	17406	CS002	R8A	4	PS	Inactive - Pre Starts			0.00	0.50		0.00	0.00	0.00
01/02D	17406	CS002	R8A	5	BL	Consumable - Bit Lube			1.00	0.00		1.00	139.30	139.30
01/02D	17406	CS002	R8A	5	CB	Chrome Barrel			48.00	0.00		48.00	3.00	144.00
01/02D	17406	CS002	R8A	6	CO	Flush hole to remove excess cuttings			0.50	0.00		0.50	350.00	175.00
01/02D	17406	CS002	R8A	6	ST	Site travel			1.50	2.00		1.50	250.00	375.00
01/02N	17407	CS002	R8A	2	HQ	HQ core drilling	642.40	690.40	48.00	0.00		48.00	165.00	7,920.00
01/02N	17407	CS002	R8A	4	DRI	Drilling Time			0.00	7.50		0.00	0.00	0.00
01/02N	17407	CS002	R8A	4	PS	Inactive - Pre Starts			0.00	0.50		0.00	0.00	0.00
01/02N	17407	CS002	R8A	5	BL	Consumable - Bit Lube			2.00	0.00		2.00	139.30	278.60
01/02N	17407	CS002	R8A	5	CB	Chrome Barrel			48.00	0.00		48.00	3.00	144.00
01/02N	17407	CS002	R8A	6	CO	Condition hole due ground condition			0.50	0.00		0.50	350.00	175.00
01/02N	17407	CS002	R8A	6	ST	Site travel			1.50	2.00		1.50	250.00	375.00
02/02D	17408	CS002	R8A	2	HQ	HQ core drilling	690.40	719.50	29.10	0.00		29.10	165.00	4,801.50
02/02D	17408	CS002	R8A	4	DRI	Drilling Time			0.00	4.00		0.00	0.00	0.00
02/02D	17408	CS002	R8A	4	PS	Inactive - Pre Starts			0.00	0.50		0.00	0.00	0.00
02/02D	17408	CS002	R8A	5	CB	Chrome Barrel			29.10	0.00		29.10	3.00	87.30
02/02D	17408	CS002	R8A	6	CO	Condition hole due ground condition			1.00	0.00		1.00	350.00	350.00
02/02D	17408	CS002	R8A	6	RT	(HR) Run / pull rods			3.00	0.00		3.00	350.00	1,050.00
02/02D	17408	CS002	R8A	6	ST	Site travel			1.50	2.00		1.50	250.00	375.00
02/02N	17409	CS002	R8A	6	CO	Condition hole due ground condition			1.00	0.00		1.00	350.00	350.00
02/02N	17409	CS002	R8A	6	RT	Pull HQ rods & case off			7.50	0.00		7.50	350.00	2,625.00
02/02N	17409	CS002	R8A	6	ST	Site travel			1.50	2.00		1.50	250.00	375.00
03/02D	17410	CS002	R8A	2	HQ	HQ core drilling	719.50	726.20	6.70	0.00		6.70	165.00	1,105.50
03/02D	17410	CS002	R8A	4	BD	Inactive - Breakdown			0.00	1.00		0.00	0.00	0.00
03/02D	17410	CS002	R8A	4	DRI	Drilling Time			0.00	2.00		0.00	0.00	0.00
03/02D	17410	CS002	R8A	4	PS	Inactive - Pre Starts			0.00	0.50		0.00	0.00	0.00
03/02D	17410	CS002	R8A	5	BL	Consumable - Bit Lube			2.00	0.00		2.00	139.30	278.60
03/02D	17410	CS002	R8A	5	CB	Chrome Barrel			6.70	0.00		6.70	3.00	20.10
03/02D	17410	CS002	R8A	5	RG	Consumable - Rod Grease			1.00	0.00		1.00	199.94	199.94
03/02D	17410	CS002	R8A	6	CO	Condition hole due ground condition			1.00	0.00		1.00	350.00	350.00

Proforma Invoices

as at 19/02/2013 2:46:17 PM

Date Shft	Plod	Hole	Rig	Type	Product	From	To	TotClient	TotCoy.	Serial/CustReference	Qty	Rate	Extension	
03/02D	17410	CS002	R8A	6	RT	Run in NQ rods			4.00	0.00		4.00	350.00	1,400.00
03/02D	17410	CS002	R8A	6	ST	Site travel			1.50	2.00		1.50	250.00	375.00
03/02N	17411	CS002	R8A	2	NQ	NQ core drilling	726.20	768.20	42.00	0.00		42.00	155.00	6,510.00
03/02N	17411	CS002	R8A	4	DRI	Drilling Time			0.00	8.00		0.00	0.00	0.00
03/02N	17411	CS002	R8A	4	PS	Inactive - Pre Starts			0.00	0.50		0.00	0.00	0.00
03/02N	17411	CS002	R8A	5	BL	Consumable - Bit Lube			1.00	0.00		1.00	139.30	139.30
03/02N	17411	CS002	R8A	5	CB	Chrome Barrel			42.00	0.00		42.00	3.00	126.00
03/02N	17411	CS002	R8A	6	ST	Site travel			1.50	2.00		1.50	250.00	375.00
04/02D	17412	CS002	R8A	2	NQ	NQ core drilling	768.20	800.00	31.80	0.00		31.80	155.00	4,929.00
04/02D	17412	CS002	R8A	2	NQ	NQ core drilling	800.00	810.40	10.40	0.00		10.40	165.00	1,716.00
04/02D	17412	CS002	R8A	4	DRI	Drilling Time			0.00	8.00		0.00	0.00	0.00
04/02D	17412	CS002	R8A	4	PS	Inactive - Pre Starts			0.00	0.50		0.00	0.00	0.00
04/02D	17412	CS002	R8A	5	BL	Consumable - Bit Lube			2.00	0.00		2.00	139.30	278.60
04/02D	17412	CS002	R8A	5	CB	Chrome Barrel			42.20	0.00		42.20	3.00	126.60
04/02D	17412	CS002	R8A	6	ST	Site travel			1.50	2.00		1.50	250.00	375.00
04/02N	17413	CS002	R8A	2	NQ	NQ core drilling (1.2M/HR)	810.40	814.60	4.20	0.00		4.20	165.00	693.00
04/02N	17413	CS002	R8A	4	BD	Inactive - Breakdown			0.00	1.00		0.00	0.00	0.00
04/02N	17413	CS002	R8A	4	DRI	Drilling Time			0.00	3.50		0.00	0.00	0.00
04/02N	17413	CS002	R8A	5	CB	Chrome Barrel			4.20	0.00		4.20	3.00	12.60
04/02N	17413	CS002	R8A	6	CO	Condition hole due ground condition			0.50	0.00		0.50	350.00	175.00
04/02N	17413	CS002	R8A	6	MM	Mixing muds			0.50	0.00		0.50	350.00	175.00
04/02N	17413	CS002	R8A	6	RT	Pull rods to check bit			3.00	0.00		3.00	350.00	1,050.00
04/02N	17413	CS002	R8A	6	ST	Site travel			1.50	2.00		1.50	250.00	375.00
05/02D	17414	CS002	R8A	2	NQ	NQ core drilling	814.60	822.50	7.90	0.00		7.90	165.00	1,303.50
05/02D	17414	CS002	R8A	4	DRI	Drilling Time			0.00	3.00		0.00	0.00	0.00
05/02D	17414	CS002	R8A	4	PS	Inactive - Pre Starts			0.00	0.50		0.00	0.00	0.00
05/02D	17414	CS002	R8A	5	CB	Chrome Barrel			7.90	0.00		7.90	3.00	23.70
05/02D	17414	CS002	R8A	6	RT	Run NQ in			5.00	0.00		5.00	350.00	1,750.00
05/02D	17414	CS002	R8A	6	ST	Site travel			1.50	2.00		1.50	250.00	375.00
05/02N	17415	CS002	R8A	2	NQ	NQ core drilling	822.50	846.20	23.70	0.00		23.70	165.00	3,910.50
05/02N	17415	CS002	R8A	4	DRI	Drilling Time			0.00	7.00		0.00	0.00	0.00
05/02N	17415	CS002	R8A	4	PS	Inactive - Pre Starts			0.00	0.50		0.00	0.00	0.00
05/02N	17415	CS002	R8A	5	BL	Consumable - Bit Lube			1.00	0.00		1.00	139.30	139.30
05/02N	17415	CS002	R8A	5	CB	Chrome Barrel			23.70	0.00		23.70	3.00	71.10
05/02N	17415	CS002	R8A	5	CR	Consumable - CR650			1.00	0.00		1.00	156.45	156.45
05/02N	17415	CS002	R8A	6	CO	Condition hole due ground condition			0.50	0.00		0.50	350.00	175.00
05/02N	17415	CS002	R8A	6	MM	Mixing muds			0.50	0.00		0.50	350.00	175.00
05/02N	17415	CS002	R8A	6	ST	Site travel			1.50	2.00		1.50	250.00	375.00
06/02D	17416	CS002	R8A	2	NQ	NQ core drilling	846.20	894.20	48.00	0.00		48.00	165.00	7,920.00
06/02D	17416	CS002	R8A	4	DRI	Drilling Time			0.00	7.00		0.00	0.00	0.00
06/02D	17416	CS002	R8A	4	PS	Inactive - Pre Starts			0.00	0.50		0.00	0.00	0.00

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as at 19/02/2013 2:46:17 PM

Date Shft	Plod	Hole	Rig	Type	Product	From	To	TotClient	TotCoy.	Serial/CustReference	Qty	Rate	Extension	
06/02D	17416	CS002	R8A	5	BL	Consumable - Bit Lube			1.00	0.00		1.00	139.30	139.30
06/02D	17416	CS002	R8A	5	CB	Chrome Barrel			48.00	0.00		48.00	3.00	144.00
06/02D	17416	CS002	R8A	5	CR	Consumable - CR650			1.00	0.00		1.00	156.45	156.45
06/02D	17416	CS002	R8A	6	MM	Mixing muds			0.50	0.00		0.50	350.00	175.00
06/02D	17416	CS002	R8A	6	ST	Site travel			1.50	2.00		1.50	250.00	375.00
06/02N	17417	CS002	R8A	2	NQ	NQ core drilling	894.20	918.20	24.00	0.00		24.00	165.00	3,960.00
06/02N	17417	CS002	R8A	4	DRI	Drilling Time			0.00	4.50		0.00	0.00	0.00
06/02N	17417	CS002	R8A	4	PS	Inactive - Pre Starts			0.00	0.50		0.00	0.00	0.00
06/02N	17417	CS002	R8A	5	CB	Chrome Barrel			24.00	0.00		24.00	3.00	72.00
06/02N	17417	CS002	R8A	6	ESR	End of shift rotation travel time			0.00	2.00		0.00	0.00	0.00
06/02N	17417	CS002	R8A	6	SS	Survey shot/s (per shot)			1.00	0.00		1.00	95.00	95.00
06/02N	17417	CS002	R8A	6	ST	Site travel			1.50	2.00		1.50	250.00	375.00
07/02D	17418	CS002	R8A	2	NQ	NQ core drilling	918.20	927.20	9.00	0.00		9.00	165.00	1,485.00
07/02D	17418	CS002	R8A	4	DRI	Drilling Time			0.00	3.50		0.00	0.00	0.00
07/02D	17418	CS002	R8A	4	MT	Inactive - Maintenance for LV			0.00	4.50		0.00	0.00	0.00
07/02D	17418	CS002	R8A	4	PS	Inactive - Pre Starts			0.00	0.50		0.00	0.00	0.00
07/02D	17418	CS002	R8A	5	BL	Consumable - Bit Lube			1.00	0.00		1.00	139.30	139.30
07/02D	17418	CS002	R8A	5	CB	Chrome Barrel			9.00	0.00		9.00	3.00	27.00
07/02D	17418	CS002	R8A	6	ST	Site travel			1.50	2.00		1.50	250.00	375.00
07/02N	17419	CS002	R8A	2	NQ	NQ core drilling	927.20	966.20	39.00	0.00		39.00	165.00	6,435.00
07/02N	17419	CS002	R8A	4	DRI	Drilling Time			0.00	7.50		0.00	0.00	0.00
07/02N	17419	CS002	R8A	4	PS	Inactive - Pre Starts			0.00	0.50		0.00	0.00	0.00
07/02N	17419	CS002	R8A	5	BL	Consumable - Bit Lube			1.00	0.00		1.00	139.30	139.30
07/02N	17419	CS002	R8A	5	CB	Chrome Barrel			39.00	0.00		39.00	3.00	117.00
07/02N	17419	CS002	R8A	5	CR	Consumable - CR650			1.00	0.00		1.00	156.45	156.45
07/02N	17419	CS002	R8A	6	CO	Condition hole due ground condition			0.50	0.00		0.50	350.00	175.00
07/02N	17419	CS002	R8A	6	ST	Site travel			1.50	2.00		1.50	250.00	375.00
08/02D	17420	CS002	R8A	2	NQ	NQ core drilling	966.20	1,000.00	33.80	0.00		33.80	165.00	5,577.00
08/02D	17420	CS002	R8A	2	NQ	NQ core drilling	1,000.00	1,008.20	8.20	0.00		8.20	180.00	1,476.00
08/02D	17420	CS002	R8A	4	DRI	Drilling Time			0.00	7.50		0.00	0.00	0.00
08/02D	17420	CS002	R8A	4	PS	Inactive - Pre Starts			0.00	0.50		0.00	0.00	0.00
08/02D	17420	CS002	R8A	5	BL	Consumable - Bit Lube			1.00	0.00		1.00	139.30	139.30
08/02D	17420	CS002	R8A	5	CB	Chrome Barrel			42.00	0.00		42.00	3.00	126.00
08/02D	17420	CS002	R8A	6	SS	Survey shot/s (per shot)			1.00	0.00		1.00	95.00	95.00
08/02D	17420	CS002	R8A	6	ST	Site travel			1.50	2.50		1.50	250.00	375.00
08/02N	17421	CS002	R8A	2	NQ	NQ core drilling	1,008.20	1,032.20	24.00	0.00		24.00	180.00	4,320.00
08/02N	17421	CS002	R8A	4	DRI	Drilling Time			0.00	6.00		0.00	0.00	0.00
08/02N	17421	CS002	R8A	4	PS	Inactive - Pre Starts			0.00	0.50		0.00	0.00	0.00
08/02N	17421	CS002	R8A	4	WX	Shut down for lightning			2.00	0.00		2.00	250.00	500.00
08/02N	17421	CS002	R8A	5	CB	Chrome Barrel			24.00	0.00		24.00	3.00	72.00
08/02N	17421	CS002	R8A	6	ST	Site travel			1.50	2.00		1.50	250.00	375.00

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Date Shft	Plod	Hole	Rig	Type	Product	From	To	TotClient	TotCoy.	Serial/CustReference	Qty	Rate	Extension	
09/02D	17422	CS002	R8A	2	NQ	NQ core drilling	1,032.20	1,074.20	42.00	0.00		42.00	180.00	7,560.00
09/02D	17422	CS002	R8A	4	DRI	Drilling Time			0.00	8.00		0.00	0.00	0.00
09/02D	17422	CS002	R8A	4	PS	Inactive - Pre Starts			0.00	0.50		0.00	0.00	0.00
09/02D	17422	CS002	R8A	5	BL	Consumable - Bit Lube			1.00	0.00		1.00	139.30	139.30
09/02D	17422	CS002	R8A	5	CB	Chrome Barrel			42.00	0.00		42.00	3.00	126.00
09/02D	17422	CS002	R8A	6	ST	Site travel			1.50	2.00		1.50	250.00	375.00
09/02N	17423	CS002	R8A	2	NQ	NQ core drilling	1,074.20	1,104.20	30.00	0.00		30.00	180.00	5,400.00
09/02N	17423	CS002	R8A	4	DRI	Drilling Time			0.00	5.00		0.00	0.00	0.00
09/02N	17423	CS002	R8A	4	MT	Inactive - Maintenance			0.00	3.00		0.00	0.00	0.00
09/02N	17423	CS002	R8A	4	PS	Inactive - Pre Starts			0.00	0.50		0.00	0.00	0.00
09/02N	17423	CS002	R8A	5	BL	Consumable - Bit Lube			1.00	0.00		1.00	139.30	139.30
09/02N	17423	CS002	R8A	5	CB	Chrome Barrel			30.00	0.00		30.00	3.00	90.00
09/02N	17423	CS002	R8A	6	ST	Site travel			1.50	2.00		1.50	250.00	375.00
10/02D	17424	CS002	R8A	2	NQ	NQ core drilling	1,104.20	1,143.20	39.00	0.00		39.00	180.00	7,020.00
10/02D	17424	CS002	R8A	4	DRI	Drilling Time			0.00	8.00		0.00	0.00	0.00
10/02D	17424	CS002	R8A	4	PS	Inactive - Pre Starts			0.00	0.50		0.00	0.00	0.00
10/02D	17424	CS002	R8A	5	BL	Consumable - Bit Lube			1.00	0.00		1.00	139.30	139.30
10/02D	17424	CS002	R8A	5	CB	Chrome Barrel			39.00	0.00		39.00	3.00	117.00
10/02D	17424	CS002	R8A	6	ST	Site travel			1.50	2.00		1.50	250.00	375.00
10/02N	17425	CS002	R8A	2	NQ	NQ core drilling - EOH	1,143.20	1,167.20	24.00	0.00		24.00	180.00	4,320.00
10/02N	17425	CS002	R8A	4	DRI	Drilling Time			0.00	4.00		0.00	0.00	0.00
10/02N	17425	CS002	R8A	4	PS	Inactive - Pre Starts			0.00	0.50		0.00	0.00	0.00
10/02N	17425	CS002	R8A	5	CB	Chrome Barrel			24.00	0.00		24.00	3.00	72.00
10/02N	17425	CS002	R8A	6	ST	Site travel			1.50	2.00		1.50	250.00	375.00
11/02D	17426	CS002	R8A	6	CD	Client delay. Logging NQ part of hole			10.50	0.00		10.50	250.00	2,625.00
11/02D	17426	CS002	R8A	6	ST	Site travel			1.50	0.00		1.50	250.00	375.00
11/02N	17427	CS002	R8A	6	FI	Free HQ casing			1.00	0.00		1.00	350.00	350.00
11/02N	17427	CS002	R8A	6	RT	Pull HQ casing			4.00	0.00		4.00	350.00	1,400.00
11/02N	17427	CS002	R8A	6	ST	Site travel			0.00	1.50		0.00	250.00	0.00
11/02N	17427	CS002	R8A	6	STB	Offsider unfit to work			0.00	5.50		0.00	250.00	0.00
12/02D	17428	CS002	R8A	6	CD	Logging HQ part of hole			12.00	0.00		12.00	250.00	3,000.00
12/02N	17429	CS002	R8A	5	DAR	Consumable - Darby Plug			2.00	0.00		2.00	30.00	60.00
12/02N	17429	CS002	R8A	5	VAN	Consumables - Van Ruth Plug			1.00	0.00		1.00	400.00	400.00
12/02N	17429	CS002	R8A	6	CEM	Mix/drill cement,cementing/grouting			5.00	0.00		5.00	350.00	1,750.00
12/02N	17429	CS002	R8A	6	ST	Site travel			1.50	2.00		1.50	250.00	375.00
12/02N	17429	CS002	R8A	6	SU	Rig down, pack up and prep for move			2.00	0.00		2.00	350.00	700.00
13/02D	17430	CS001	R8A	5	GRT	Cement for grouting (Hole CS001)			1.00	0.00		1.00	2,265.60	2,265.60
13/02D	17430	CS002	R8A	5	GRT	Cement for grouting (Hole CS002)			1.00	0.00		1.00	2,265.60	2,265.60
13/02D	17430	CS002	R8A	6	CAMD	Survey camera hire (per day)			13.00	0.00		13.00	110.00	1,430.00
13/02D	17430	CS002	R8A	6	CEM	Mix/drill cement,cementing/grouting			1.50	0.00		1.50	350.00	525.00
13/02D	17430	CS002	R8A	6	MO	Move equipment back to bore			1.50	0.00		1.50	350.00	525.00

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Date	Shft	Plod	Hole	Rig	Type	Product	From	To	TotClient	TotCoy.	Serial/CustReference	Qty	Rate	Extension
13/02D	17430	CS002	R8A	6	ST	Site travel			1.50	2.00		1.50	250.00	375.00
13/02D	17430	CS002	R8A	6	STB	Load truck ready for demob			6.00	0.00		6.00	250.00	1,500.00
14/02D	9104	CS002	R8A	6	DEMOB	Demobilisation from Robxy Downs			1.00	0.00		1.00	6,000.00	6,000.00

Total for Job 168 = \$145,278.69

Total for Rig R8A = \$145,278.69

Overall Total = \$145,278.69

APPENDIX 7

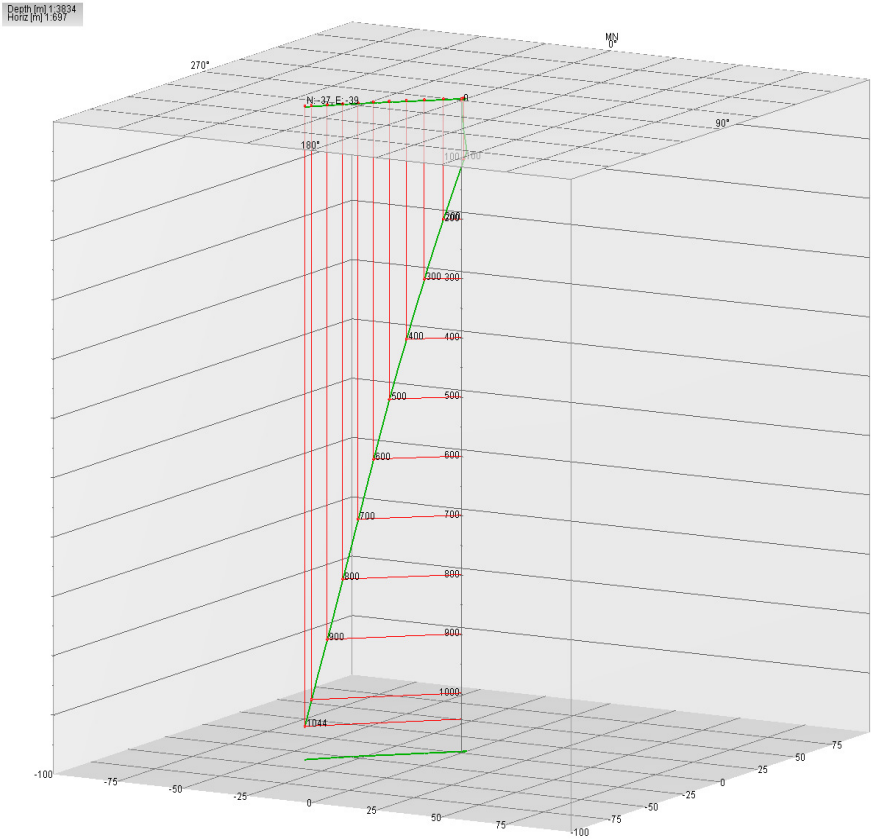
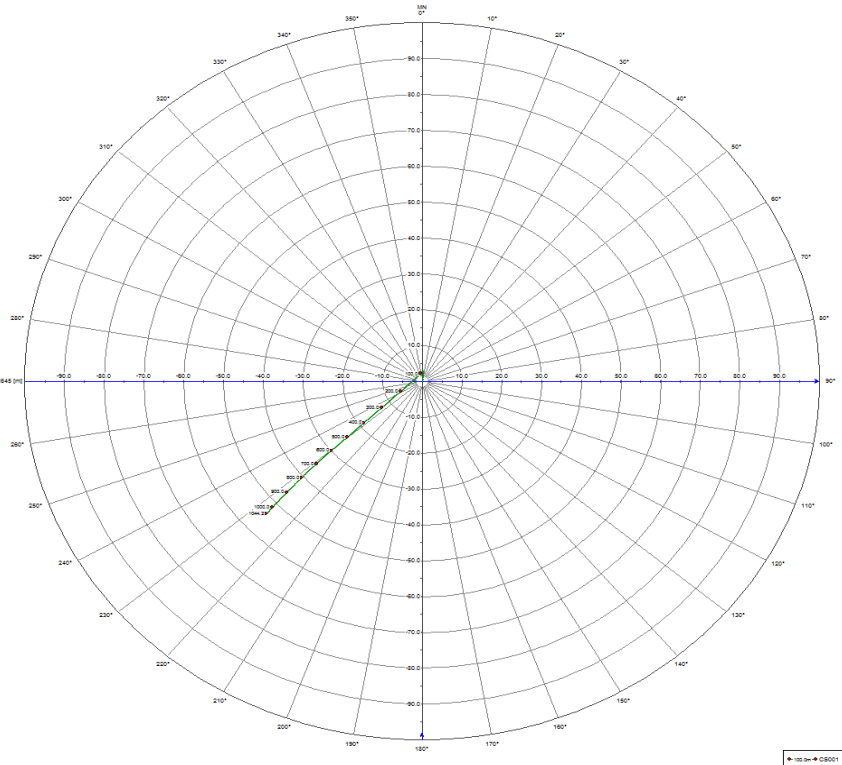
Wireline logs

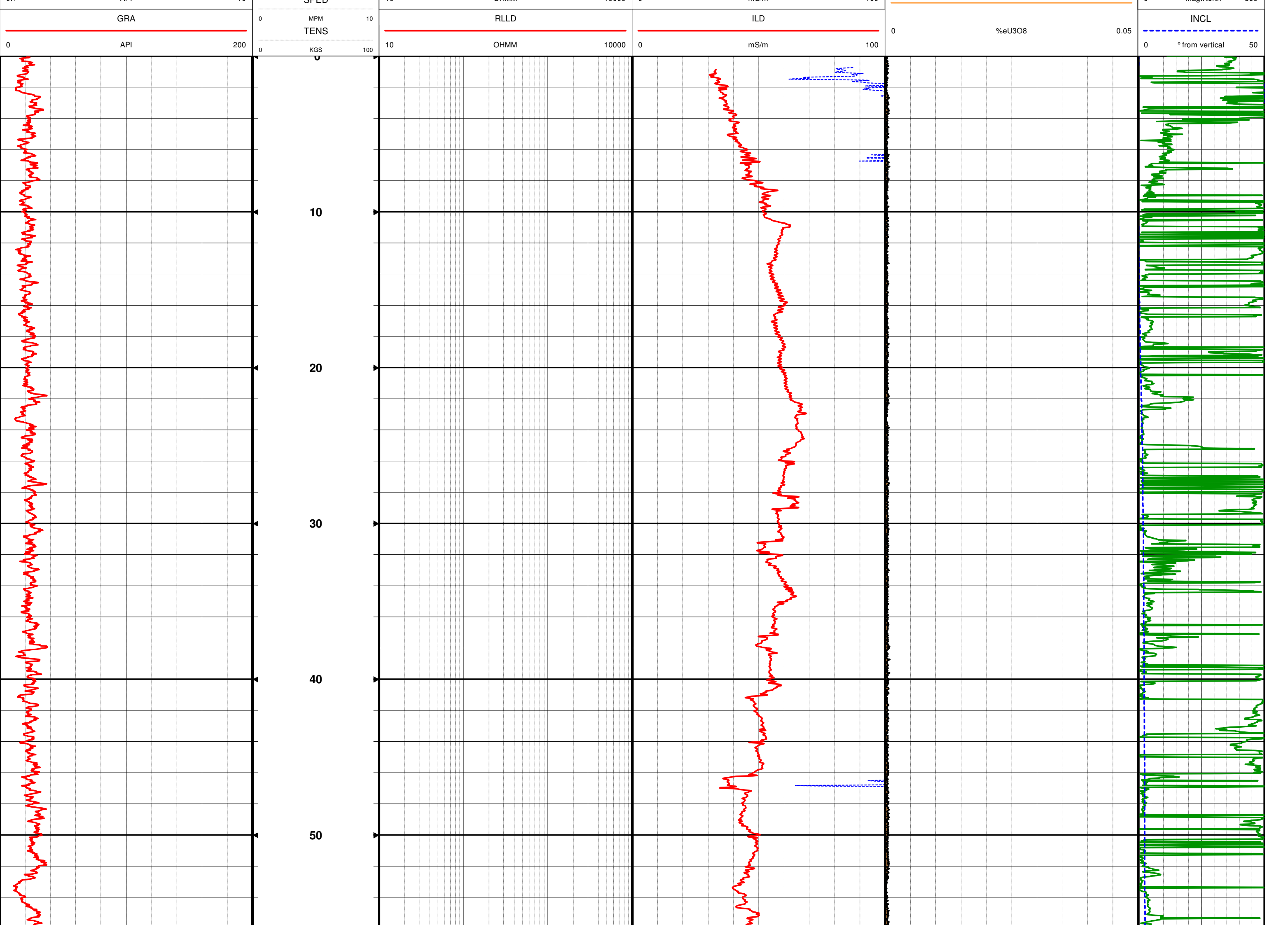
Digital data refer to files: CS001 Compilation.las and CS002 Compilation.las

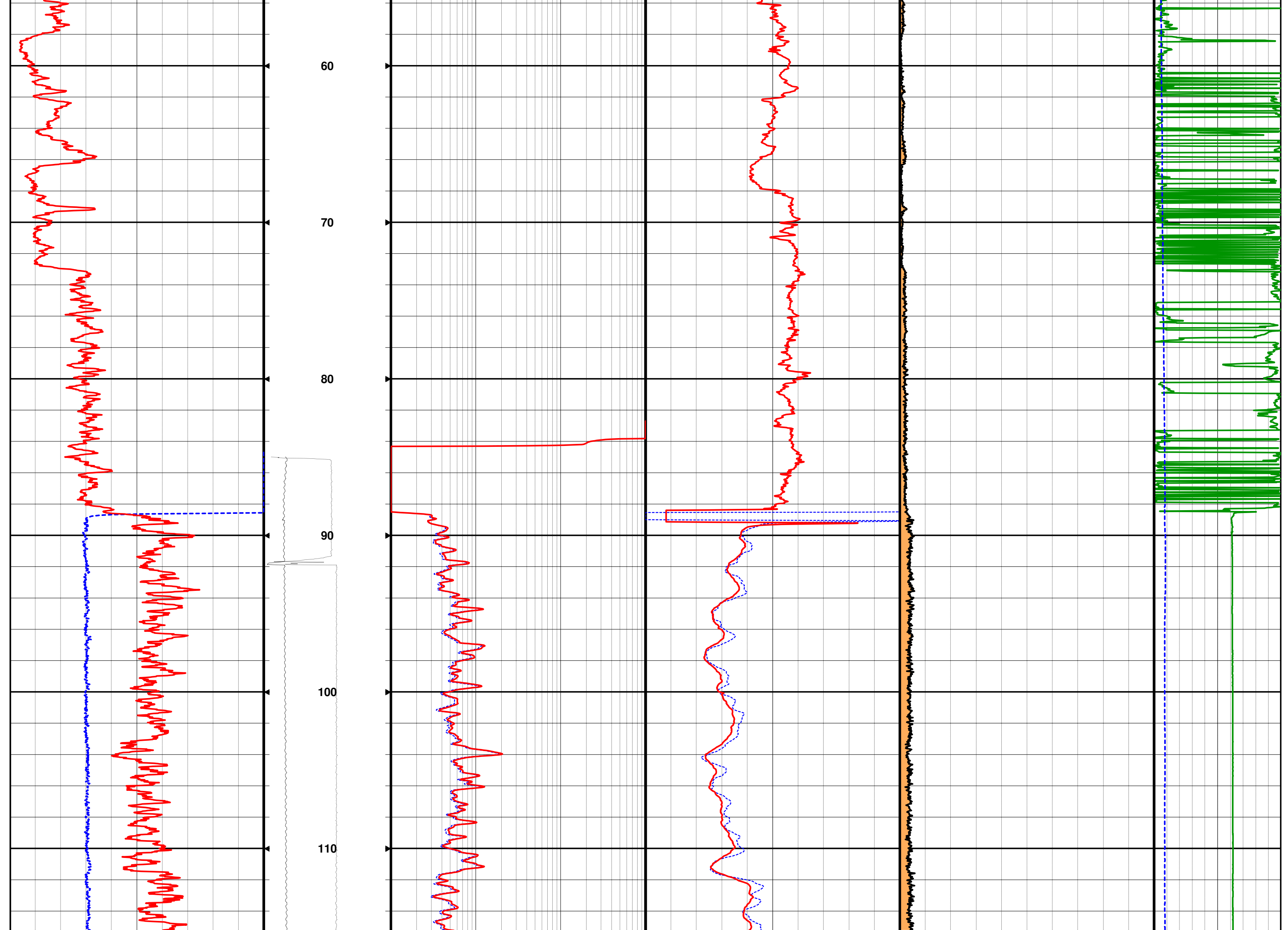
BOREHOLE COMPOSITE LOG

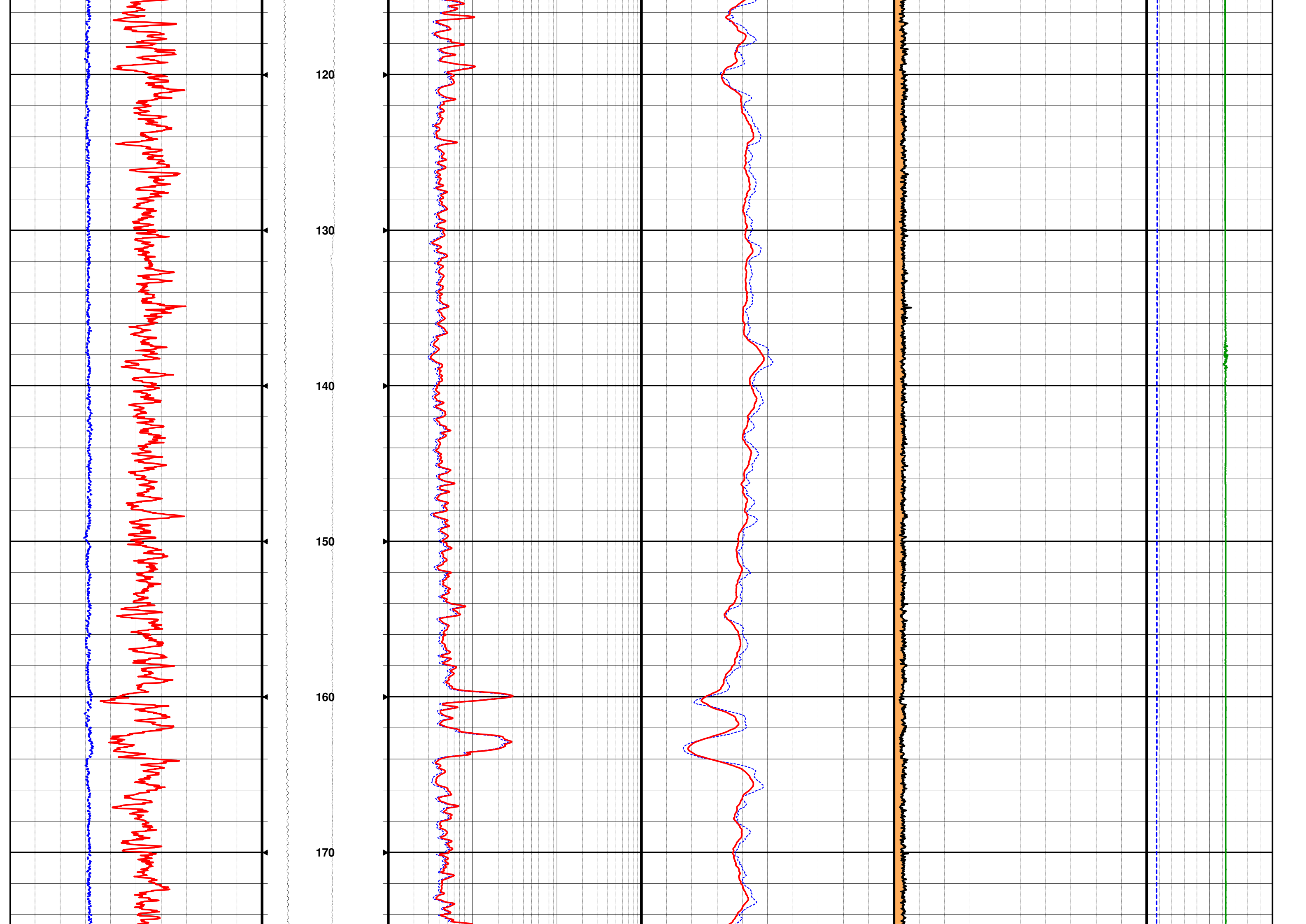
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BOREHOLE		CS001					
FIELD		COWARD SPRINGS					
LOCATION							
PROVINCE		SOUTH AUSTRALIA					
COUNTRY							
EASTING		NORTHING		ELEVATION		AMG PROJ.	
LOG DATE 15/01/13 - 16/01/13		LOGGED DEPTH 1047m		INTERVAL		DATUM GL	
RECORDED BY SCW		WITNESSED BY DE		LOGGING UNIT BW15			
DRILLED DEPTH 1170m		DRILLED BY TECHDRILL		FLUID TYPE POLYMER MUD		FLUID LEVEL	
BOREHOLE RECORD				CASING RECORD		LOGGING RUNS	
BIT TYPE	BIT SIZE	FROM	TO	TYPE	SIZE	FROM	TO
HQ	96mm	GL	720m	PVC	GL		
NQ	76mm	720m	1170m	STEEL	100mm	GL	720m
				TOOL	START	FINISH	RUN No
				DUMMY	GL	1047m	
				GRMDEVEM	150m	GL	
				DLL3MSUSI	1047m	GL	
CURVE/IMAGE MNEMONICS							
GRA	GAMMA						
MS	MAGNETIC SUSCEPTIBILITY						
RLLS	SHORT FOCUSED RESISTIVITY						
RLLD	DEEP FOCUSED RESISTIVITY						
ILS	SHORT SPACED INDUCTION						
ILD	DEEP SPACED INDUCTION						
GRE	EQUIVALENT URANIUM GRADE						
AZIM	BH AZIMUTH (MAGN REFERENCE)						
INCL	BH INCLINATION (0° = VERTICAL)						
H	TOTAL MAGNETIC FIELD						
Remarks							
Logged in 2 stages:							
NQ Section below 720m (limited by wireline length)							
HQ section above 720m after HQ steel casing removed.							
No OF PAGES		DEPTH INTERVAL THIS PAGE					

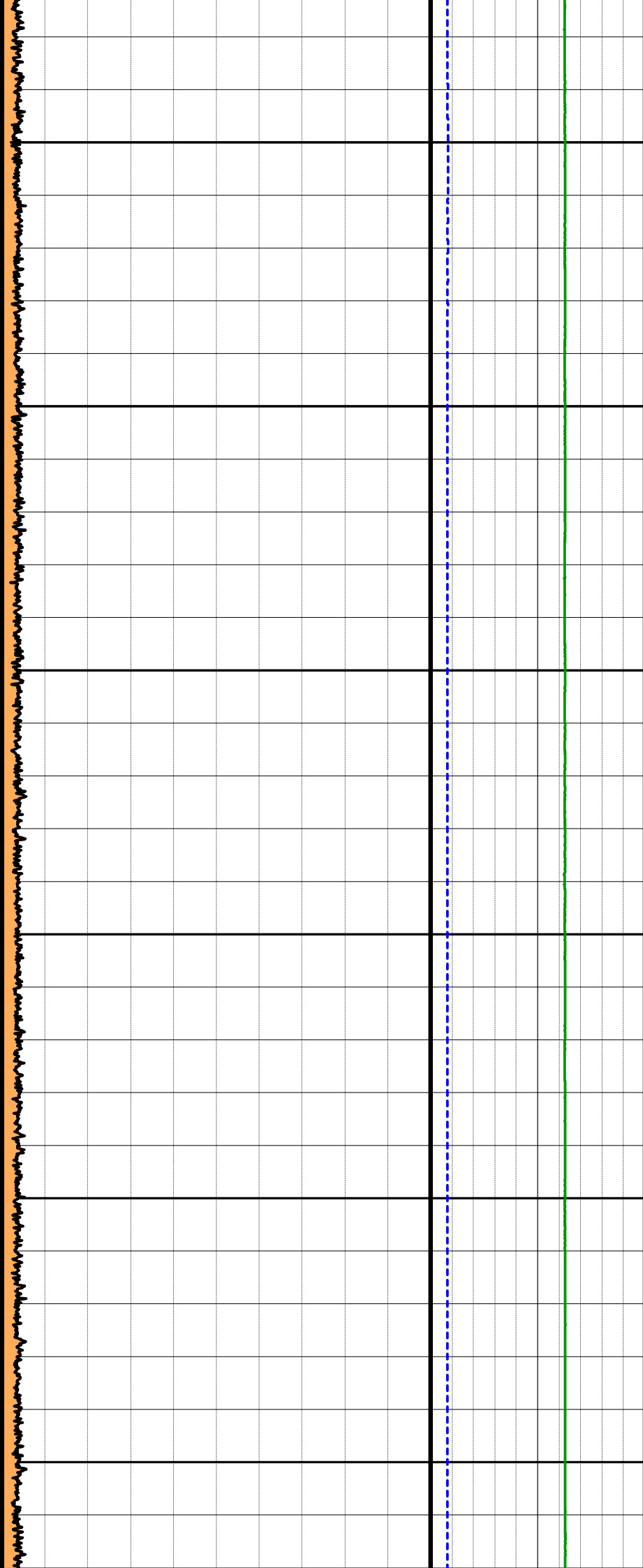
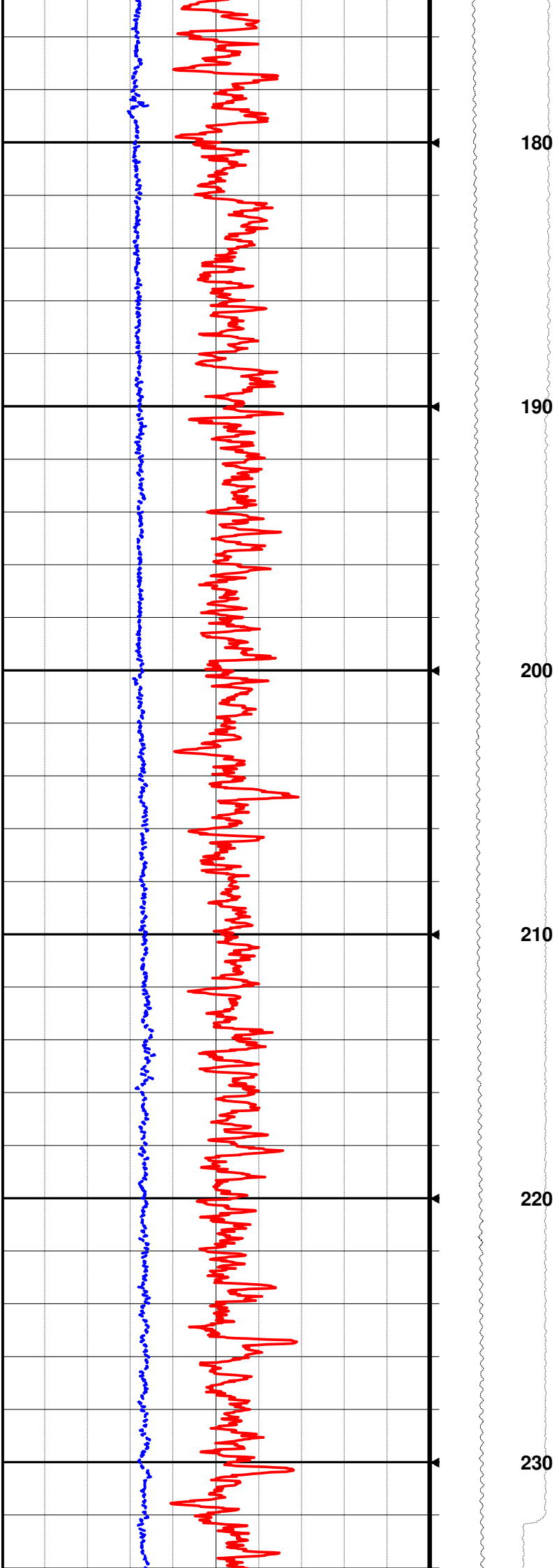
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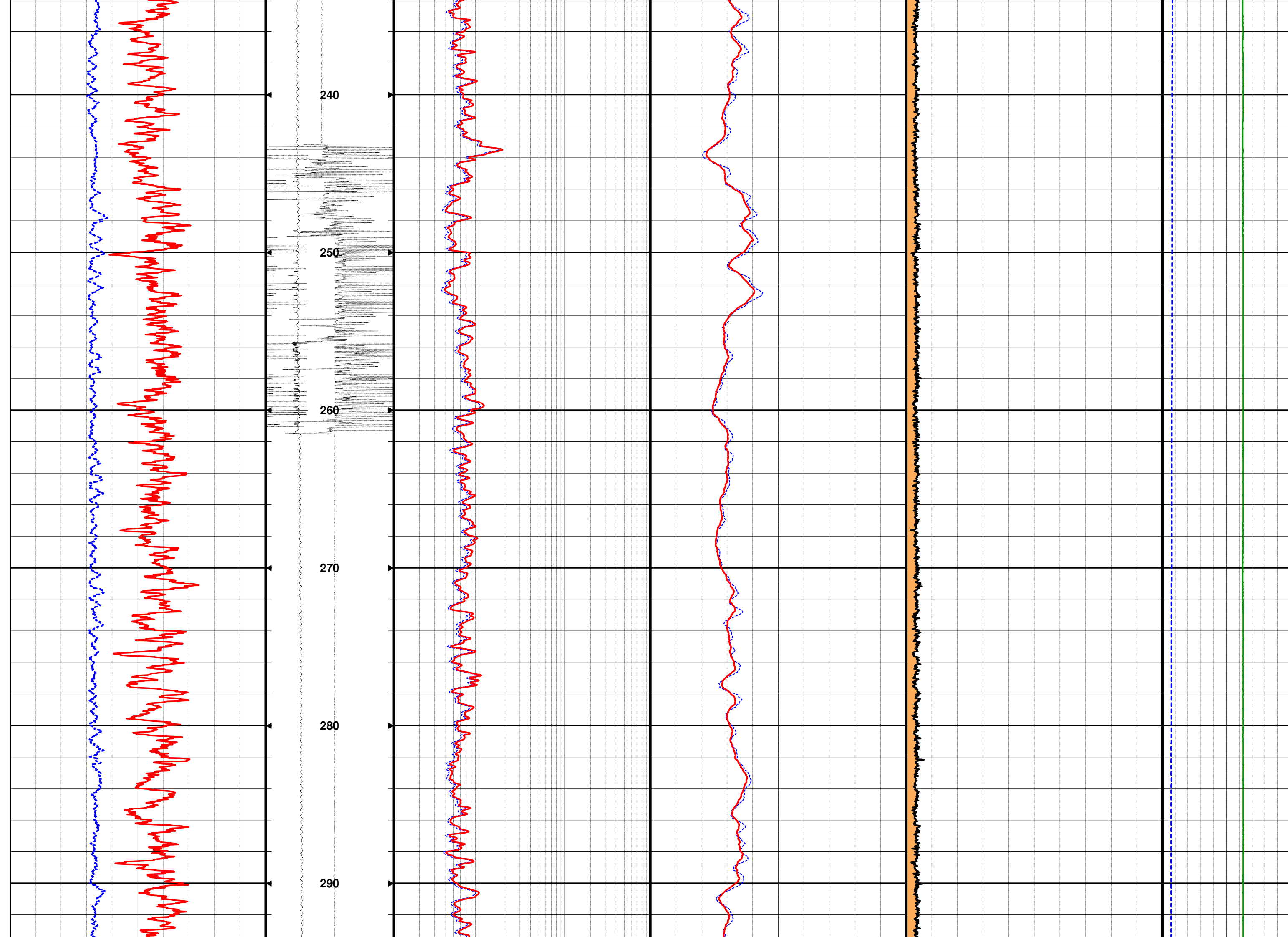


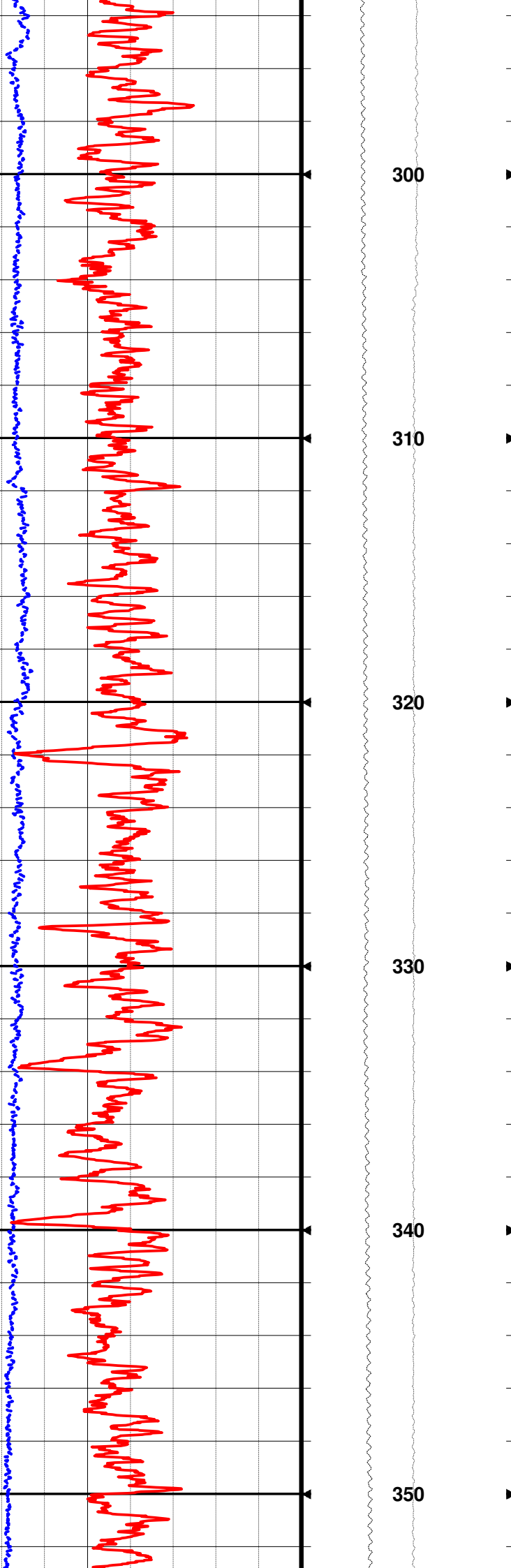
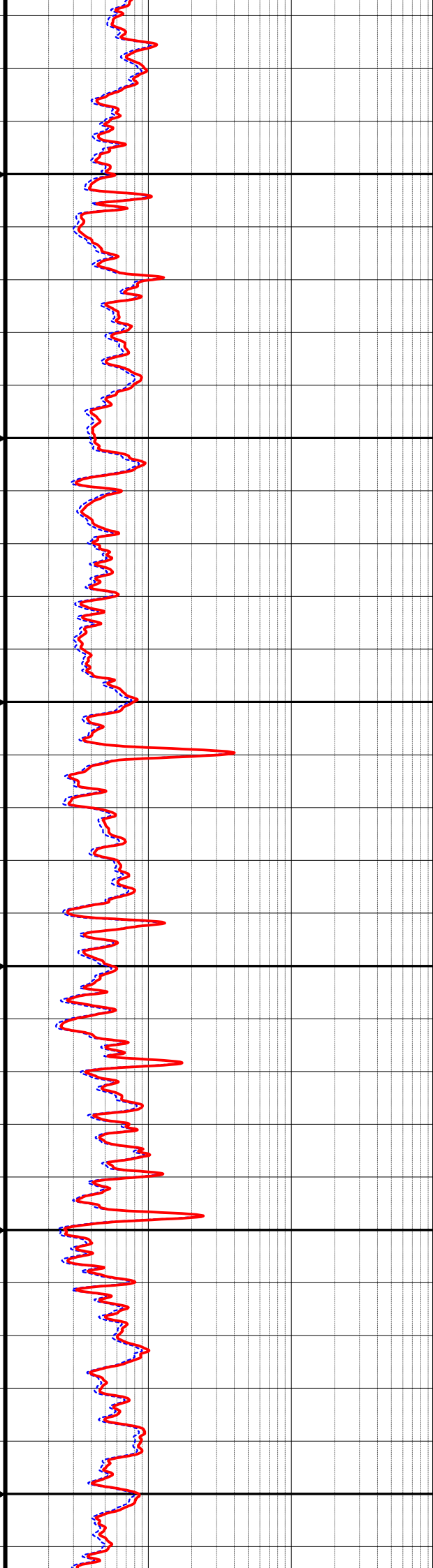
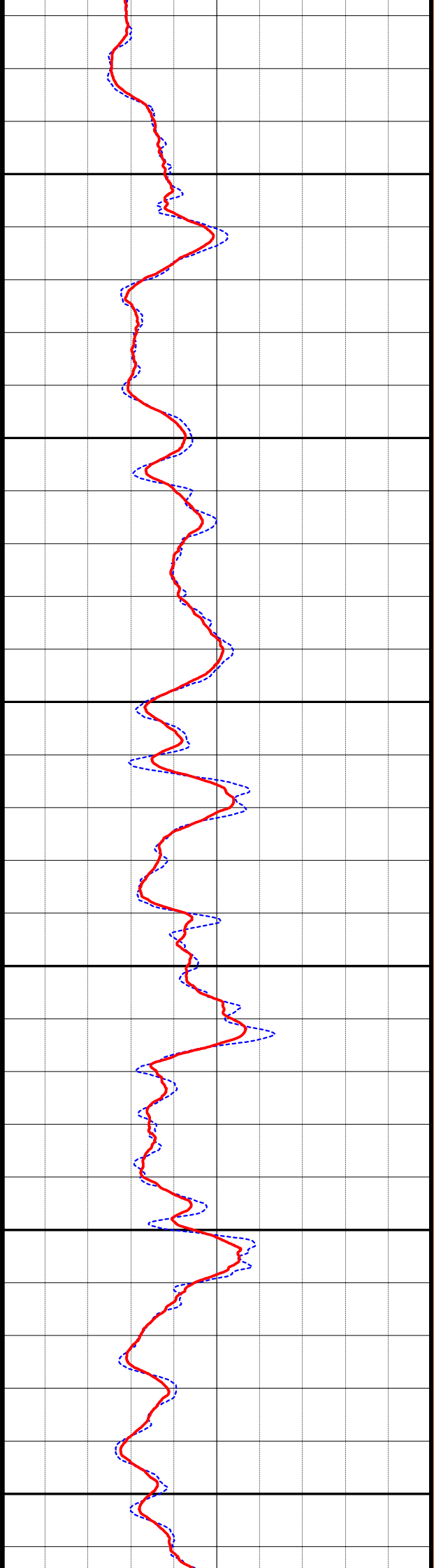
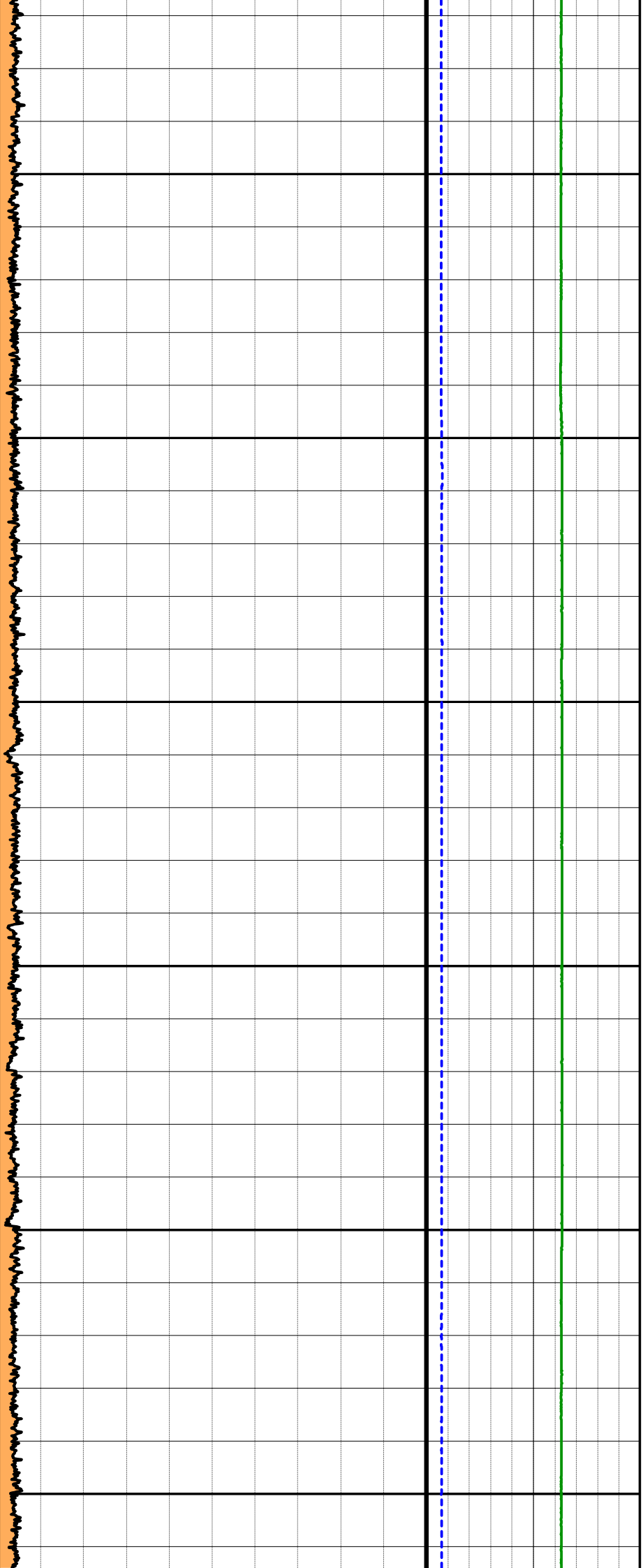


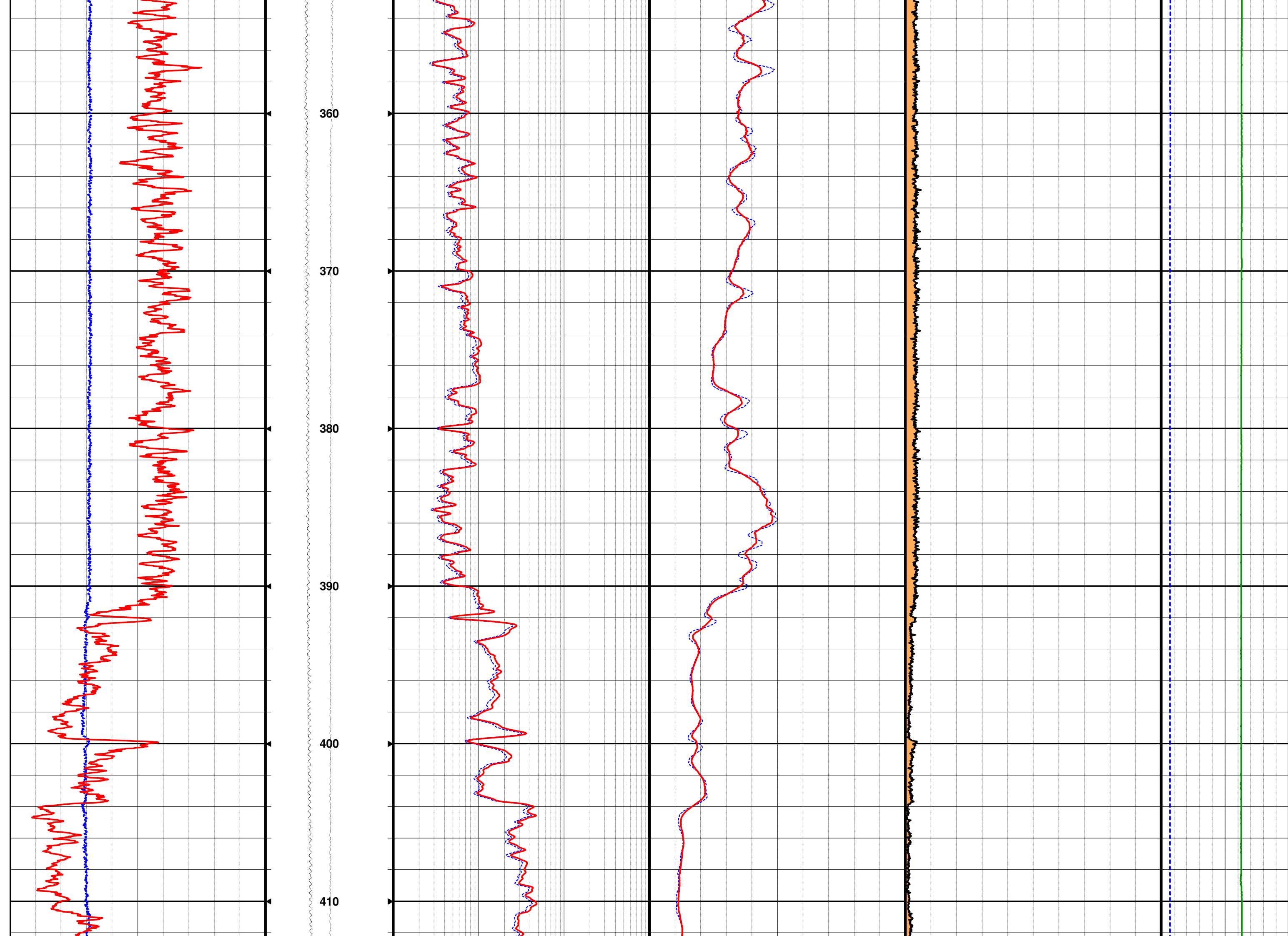


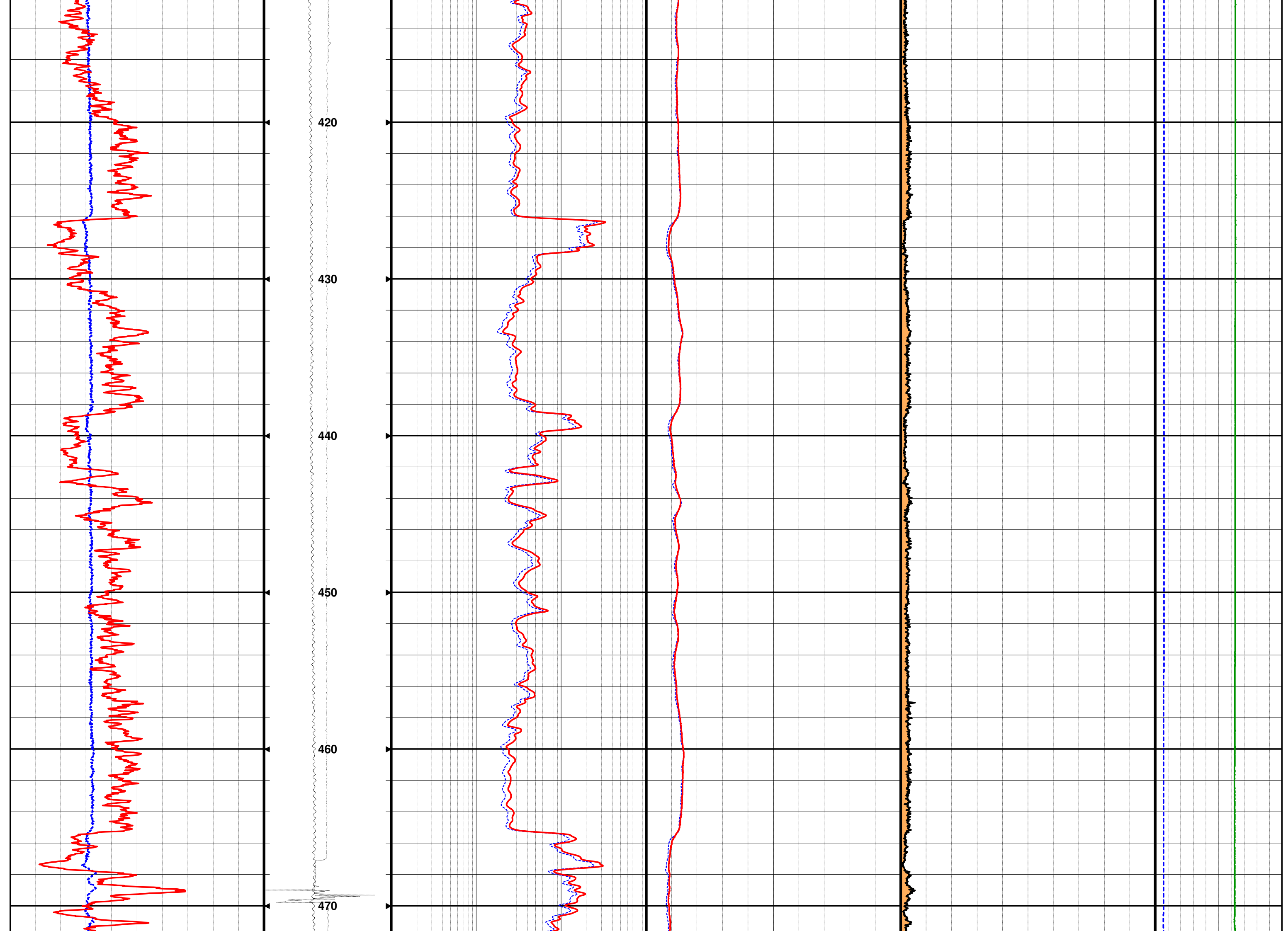


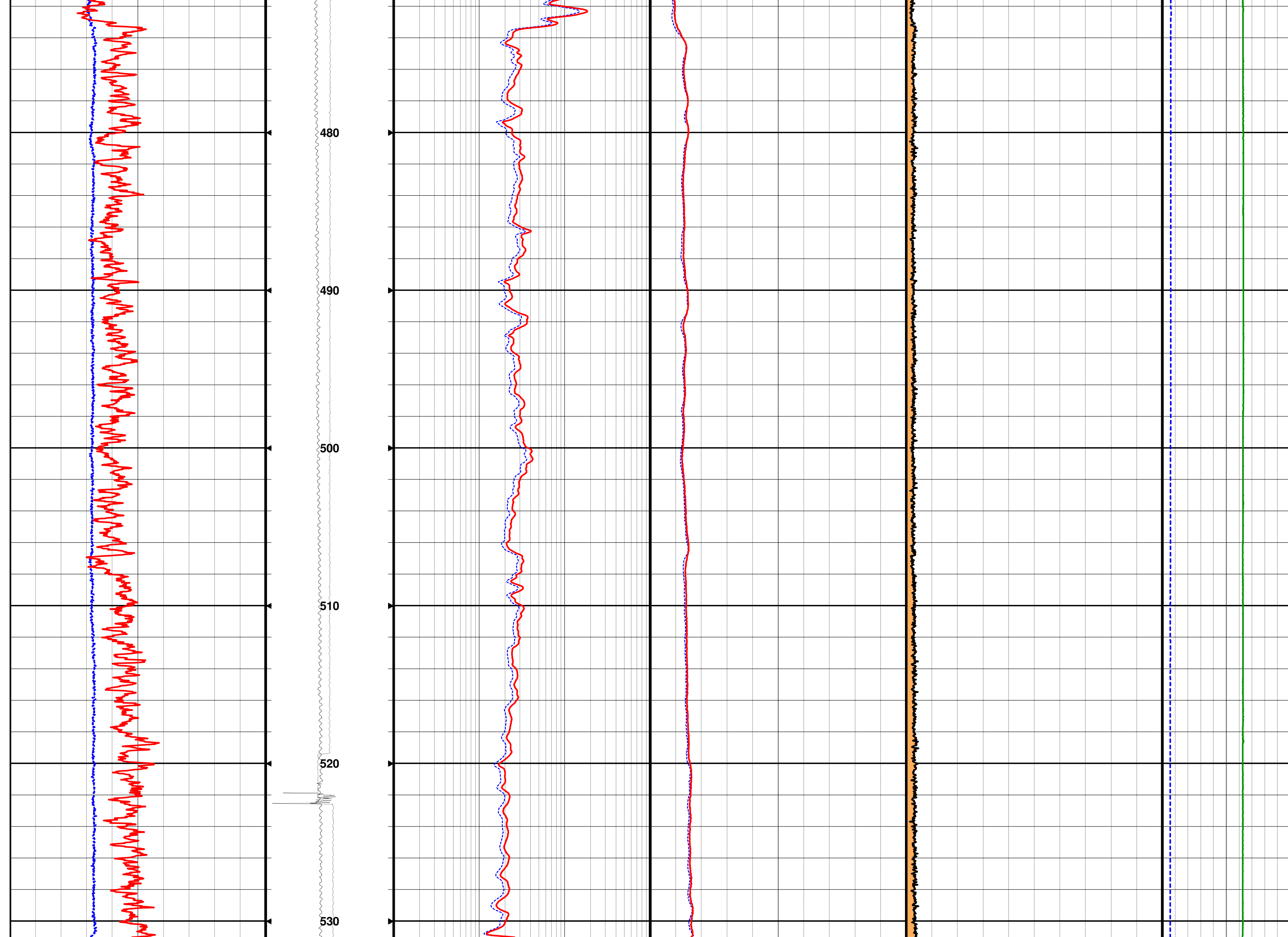


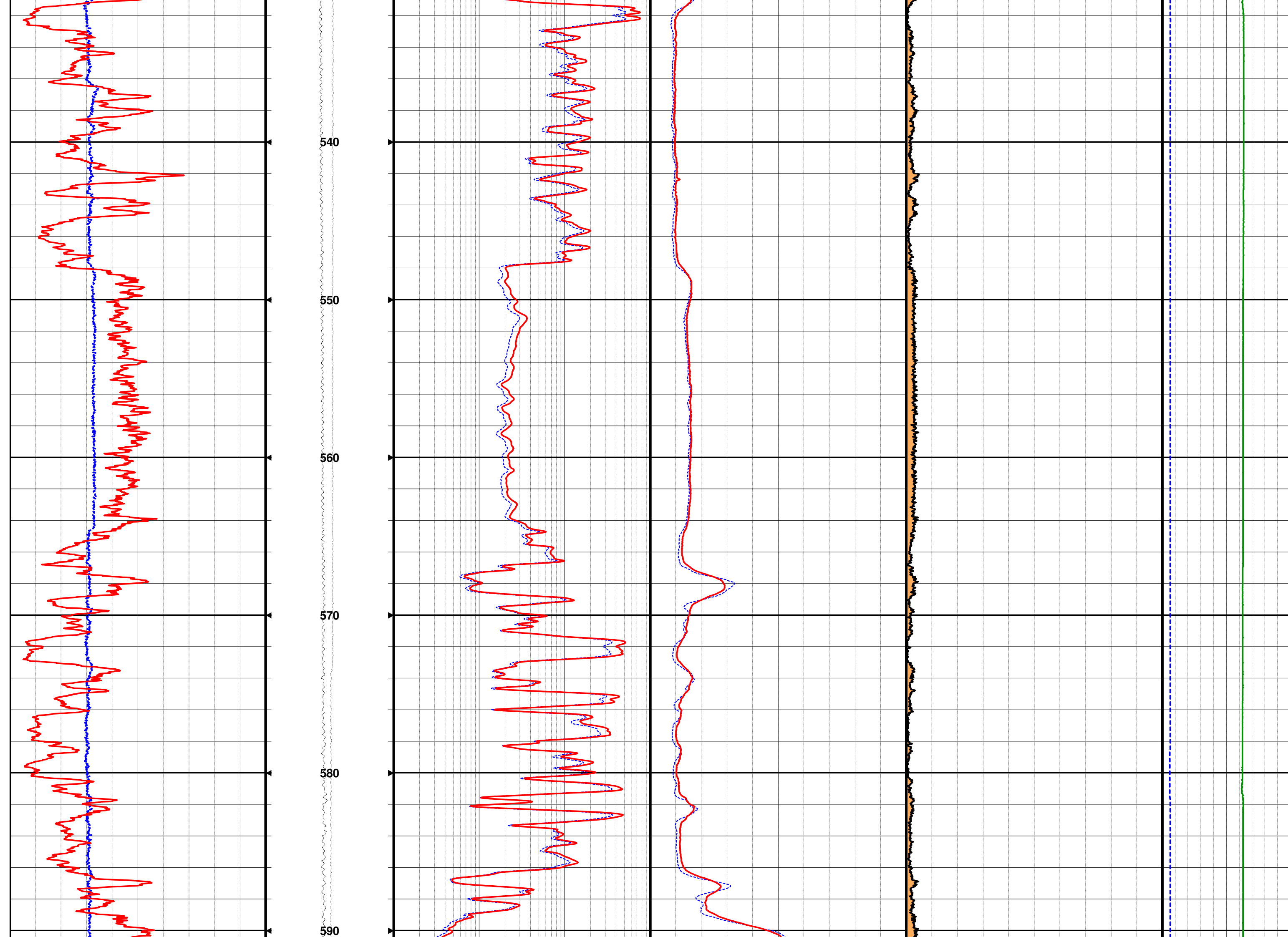


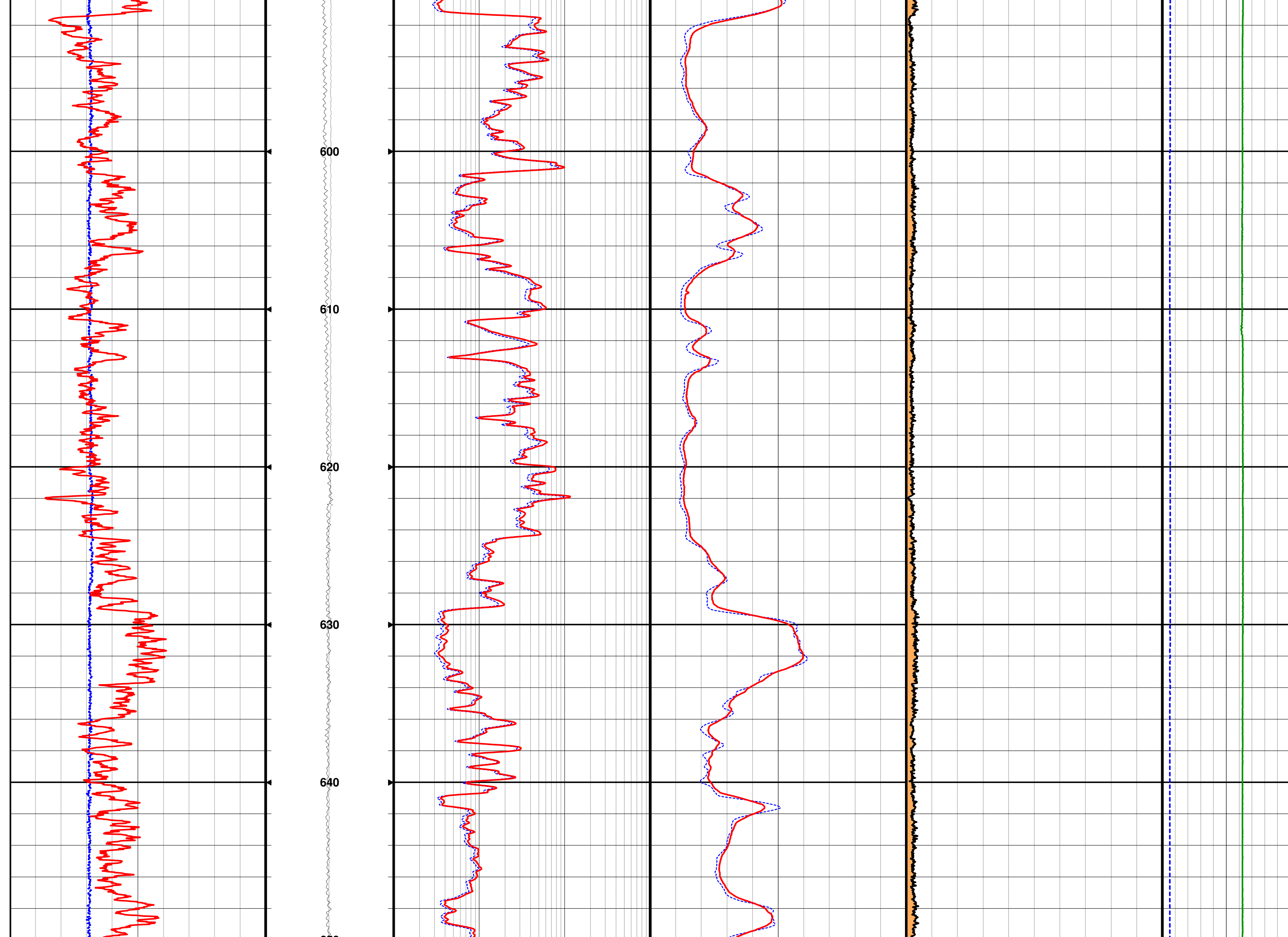


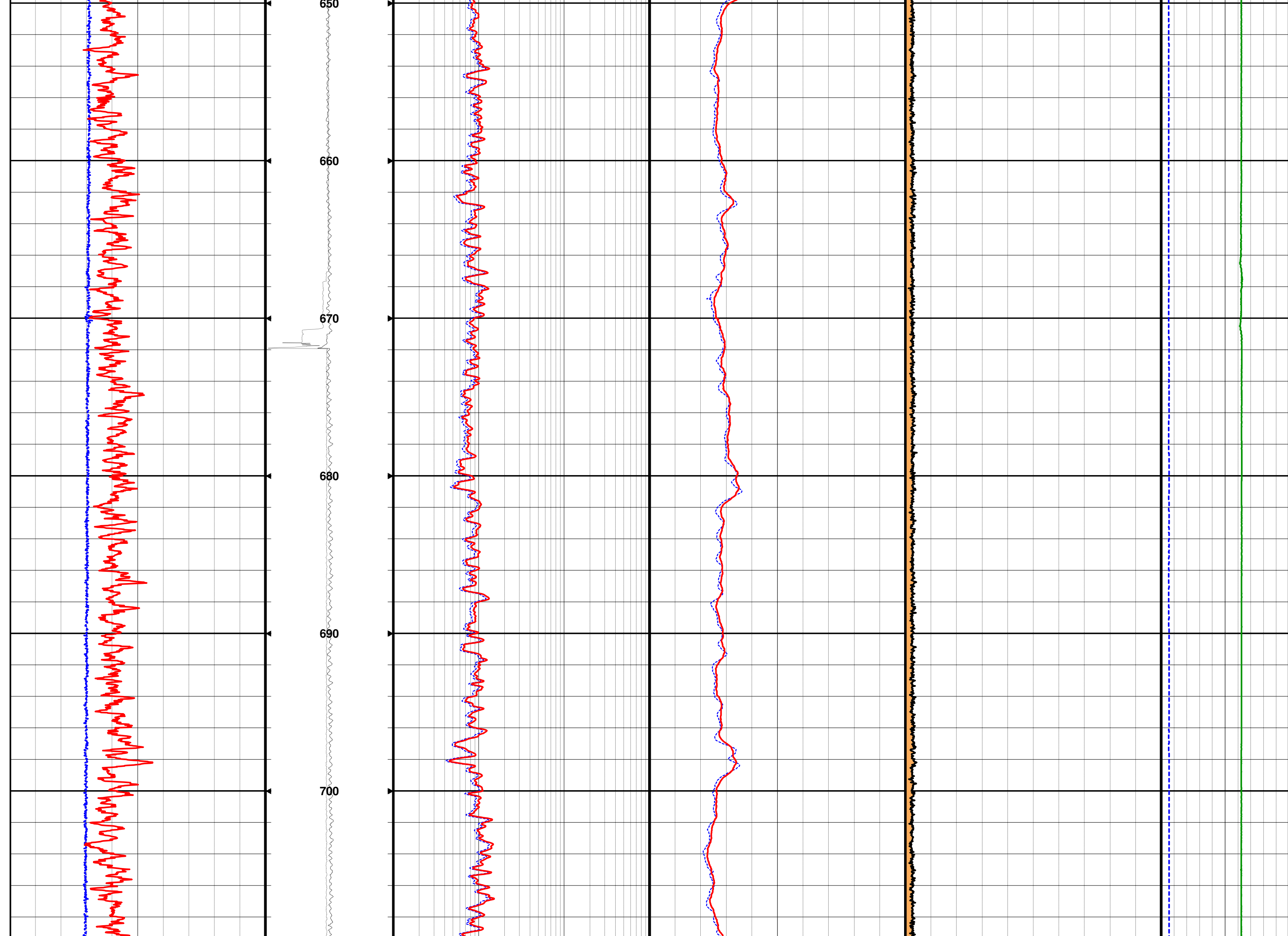


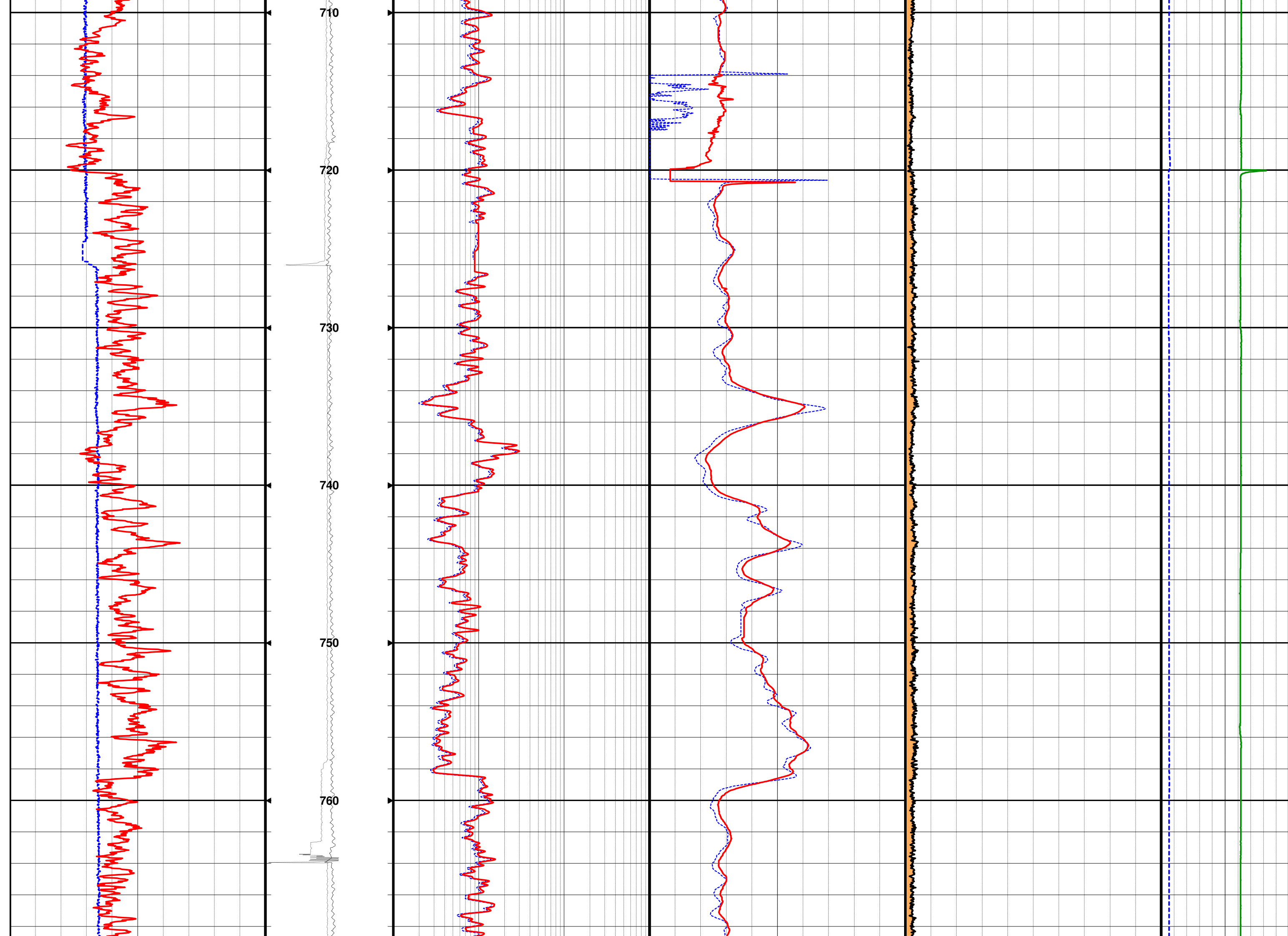


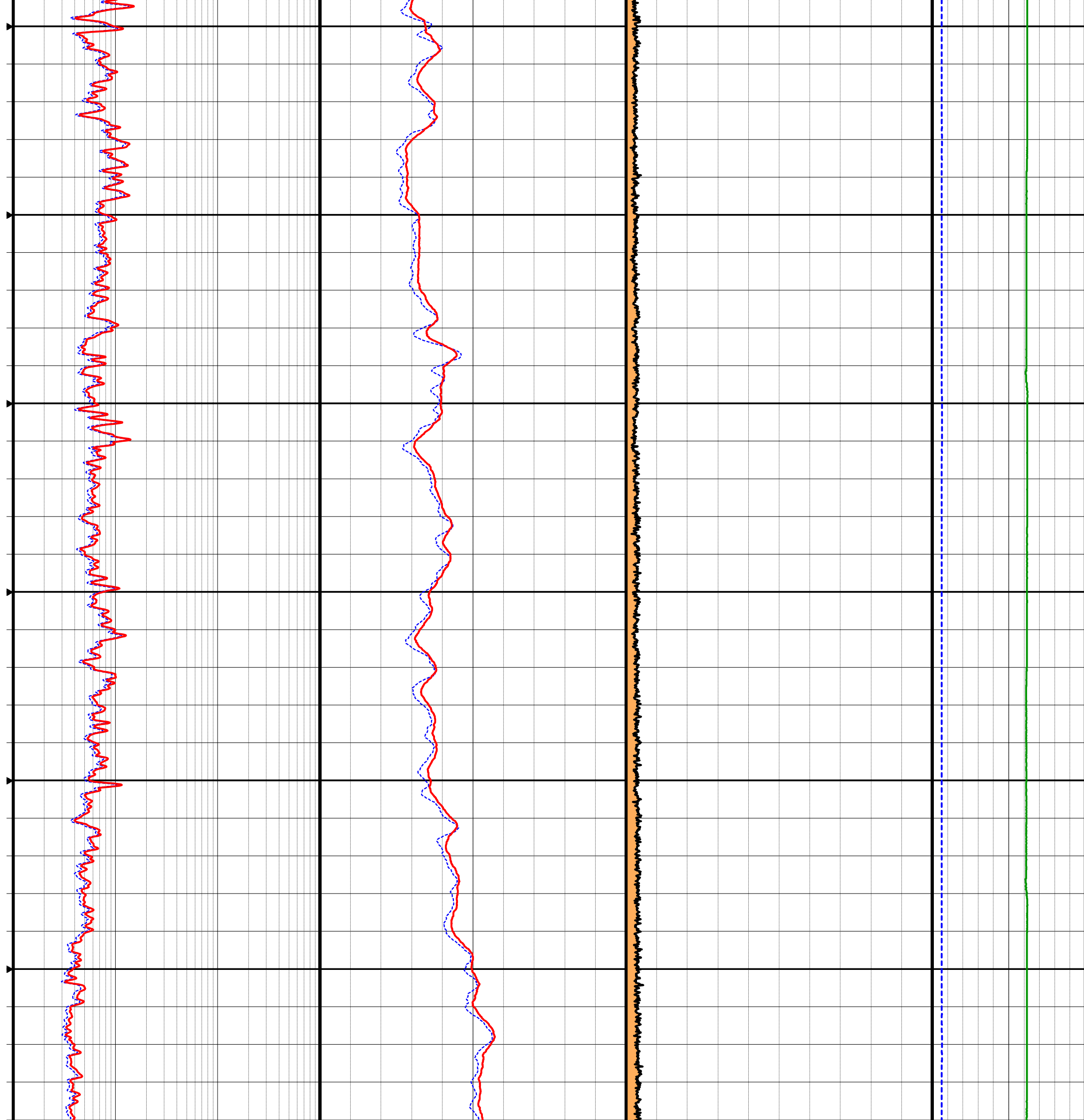
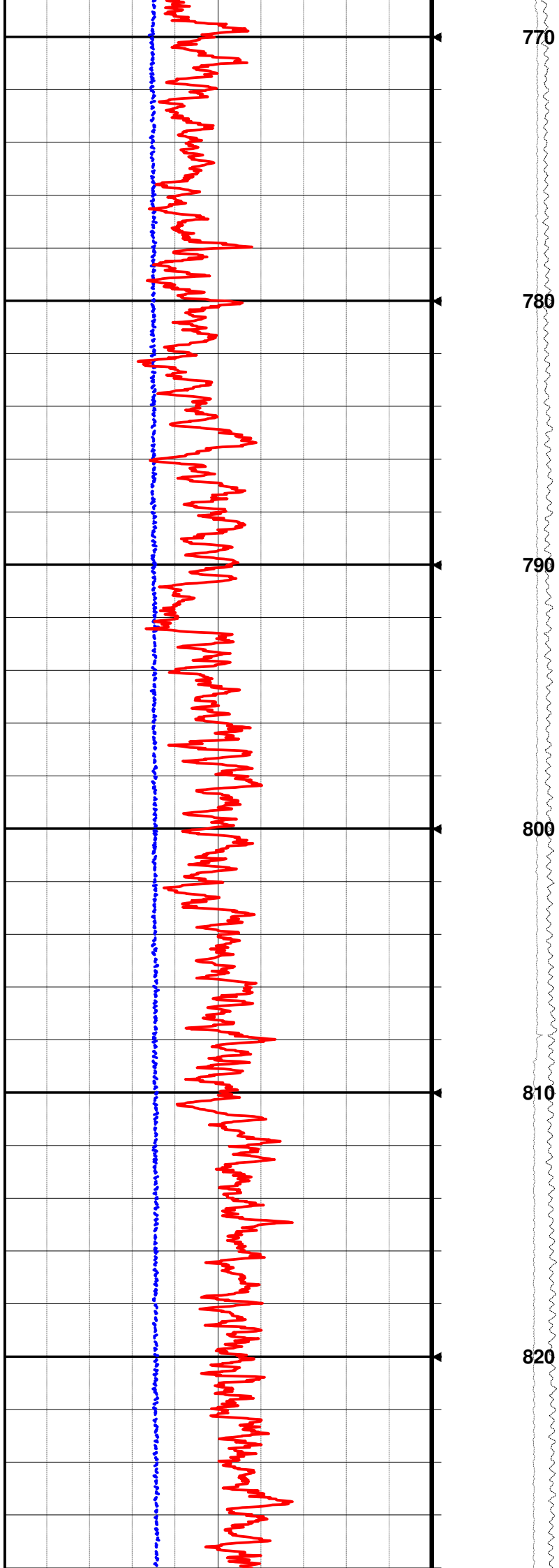


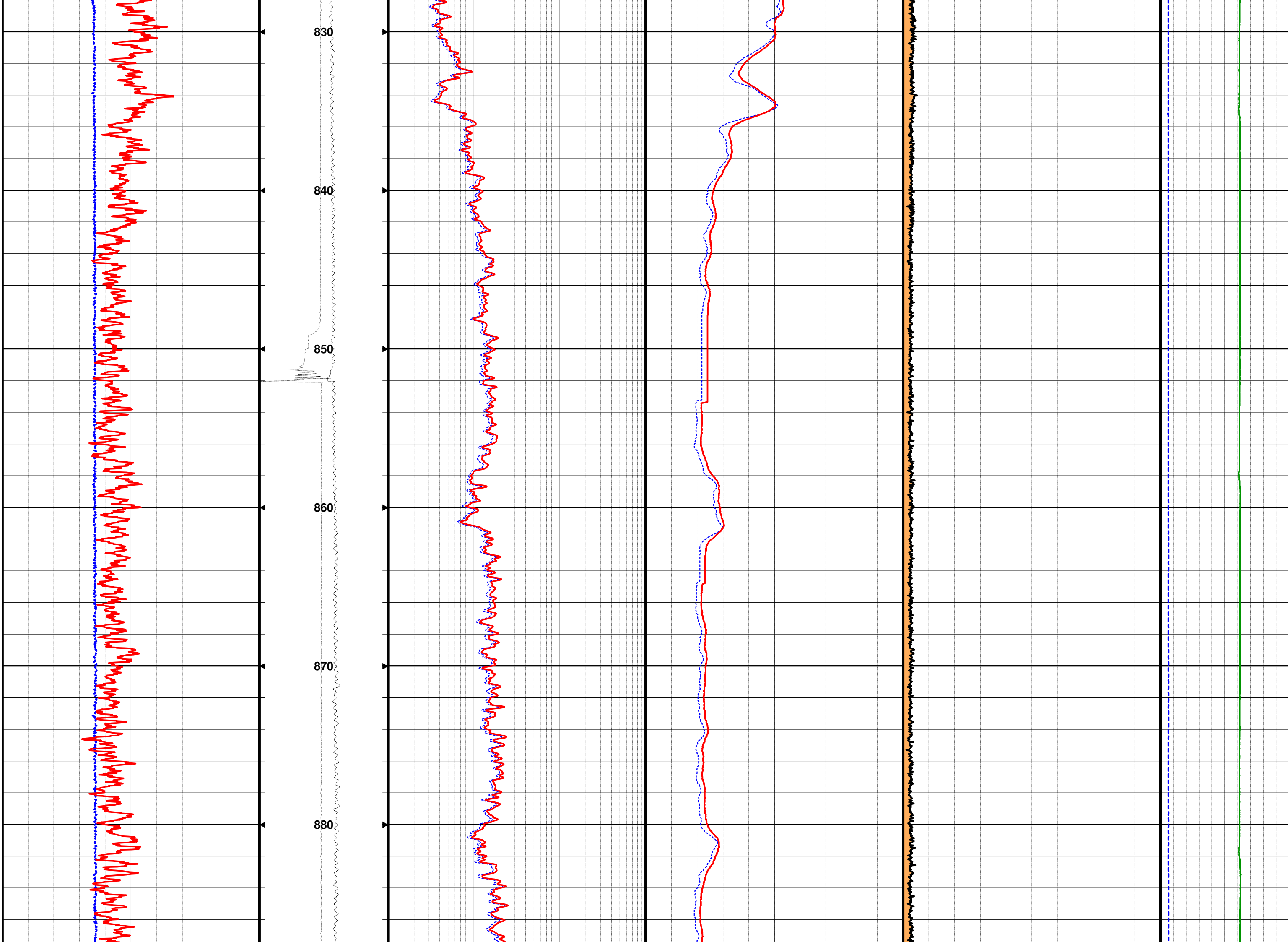


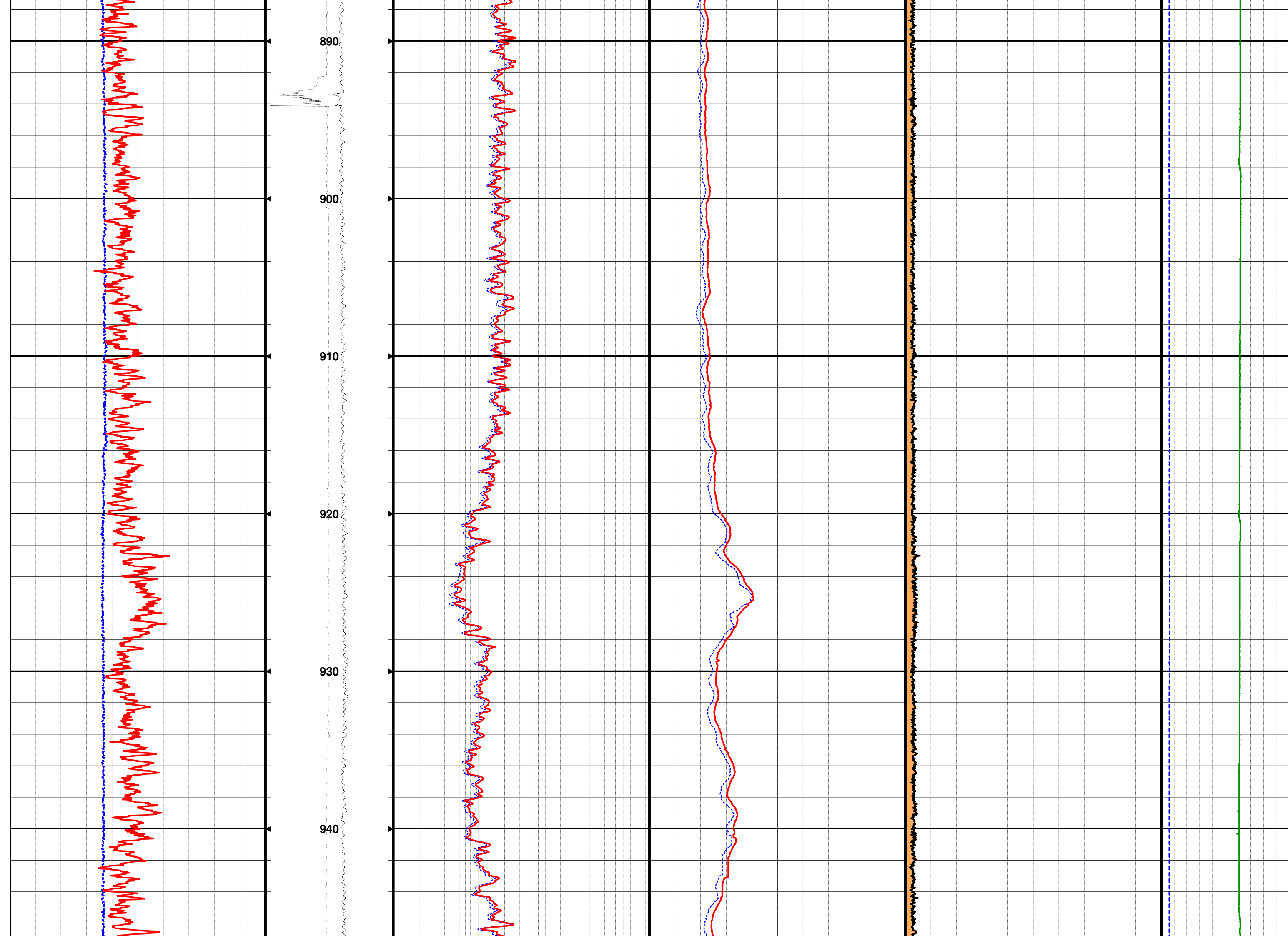


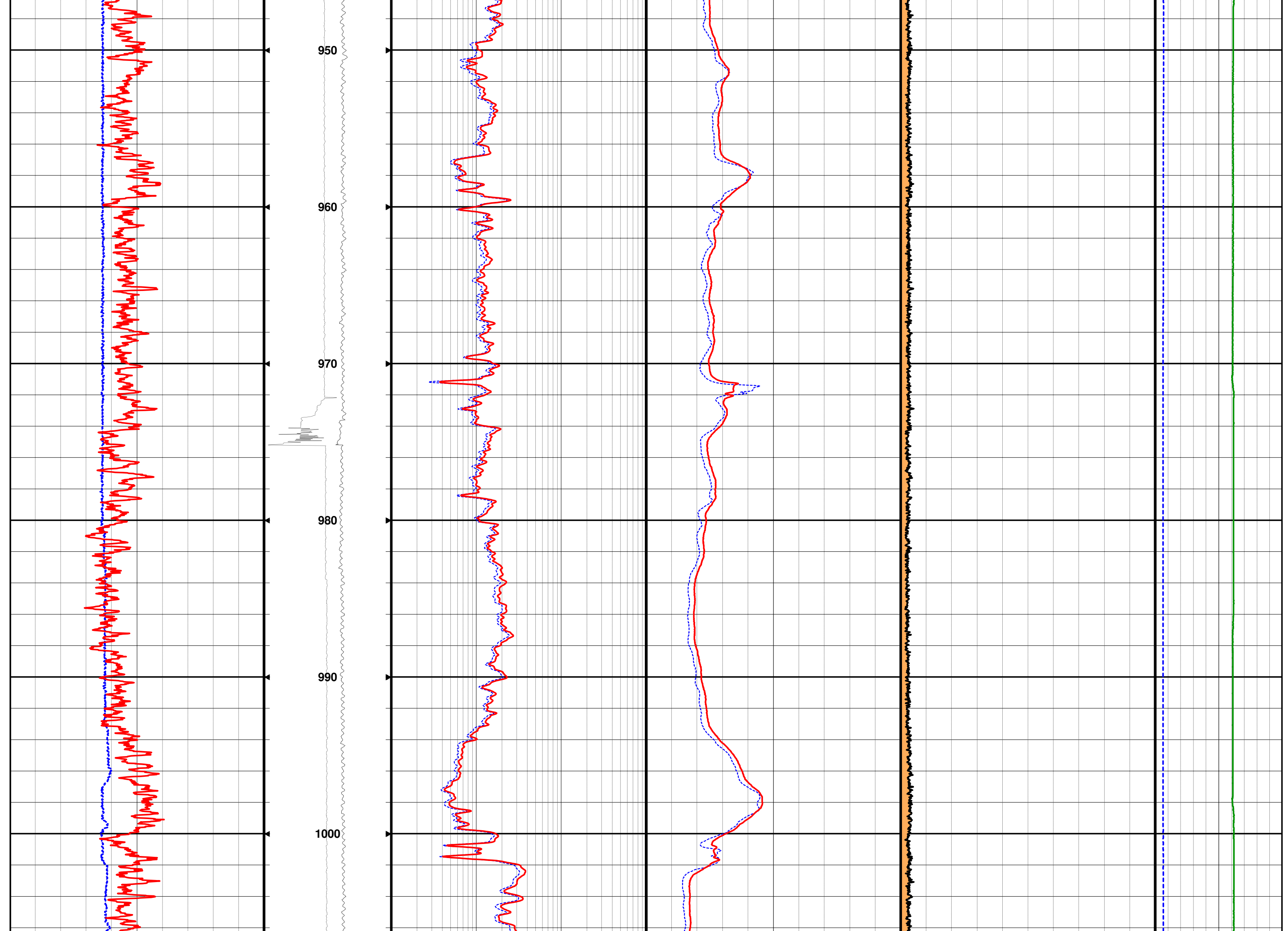


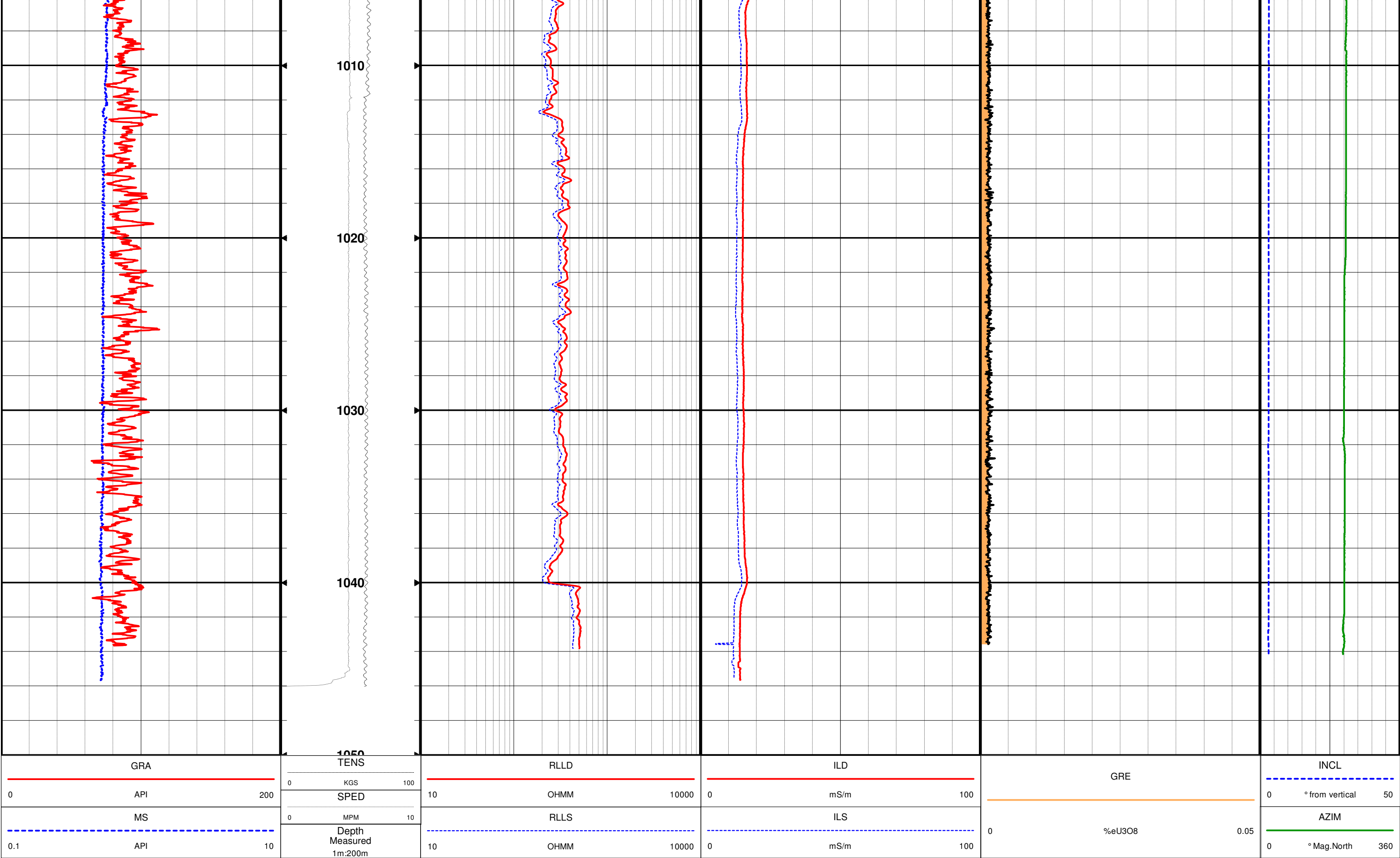










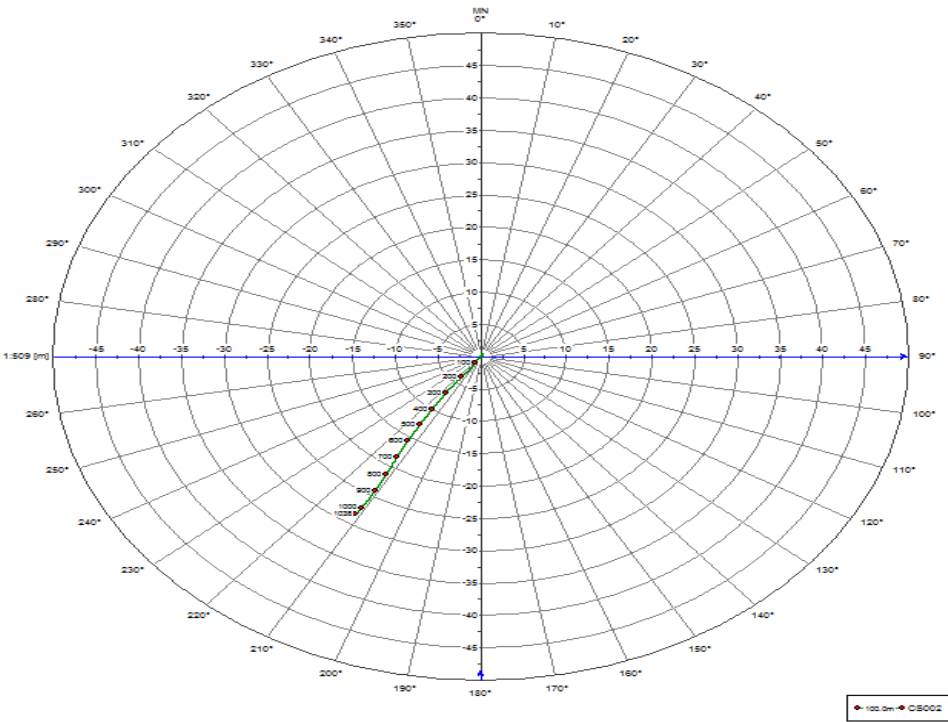


PROVINCE/COUNTY
COUNTRY/STATE
LOCATION

BOREHOLE COMPOSITE LOG

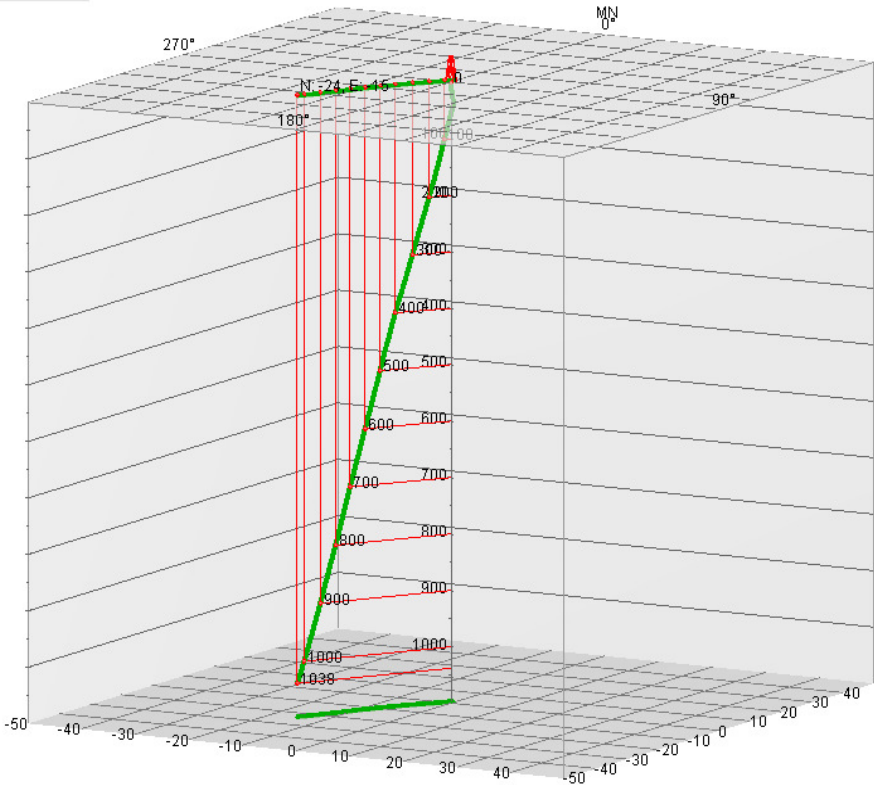
COMPANY		SA LUDI MINING PTY LTD					
BOREHOLE		CS002					
FIELD		COWARD SPRINGS					
LOCATION							
PROVINCE		SOUTH AUSTRALIA					
COUNTRY							
EASTING		NORTHING		ELEVATION		AMG PROJ.	
LOG DATE 11/02/13 - 12/02/13		LOGGED DEPTH 1040m		INTERVAL		DATUM GL	
RECORDED BY SCW		WITNESSED BY DE		LOGGING UNIT BW15			
DRILLED DEPTH 1167m		DRILLED BY TECHDRILL		FLUID TYPE POLYMER MUD		FLUID LEVEL	
BOREHOLE RECORD				CASING RECORD		LOGGING RUNS	
BIT TYPE	BIT SIZE	FROM	TO	TYPE	SIZE	FROM	TO
HQ	96mm	GL	730m	PVC		GL	18m
NQ	76mm	730m	1167m	STEEL	100mm	GL	42m
						TOOL	START
						DUMMY	GL
						GRMDEVEM	1040m
						DLL3MSUSI	1040m
							GL
							GL
CURVE/IMAGE MNEMONICS							
GRA	GAMMA						
MS	MAGNETIC SUSCEPTIBILITY						
RLLS	SHORT FOCUSED RESISTIVITY						
RLLD	DEEP FOCUSED RESISTIVITY						
ILS	SHORT SPACED INDUCTION						
ILD	DEEP SPACED INDUCTION						
GRE	EQUIVALENT URANIUM GRADE						
AZIM	BH AZIMUTH (MAGN REFERENCE)						
INCL	BH INCLINATION (0° = VERTICAL)						
H	TOTAL MAGNETIC FIELD						
Remarks							
Logged in 2 stages:							
NQ Section below 730m (limited by wireline length)							
HQ section above 730m after HQ steel casing removed.							
No OF PAGES		DEPTH INTERVAL THIS PAGE					

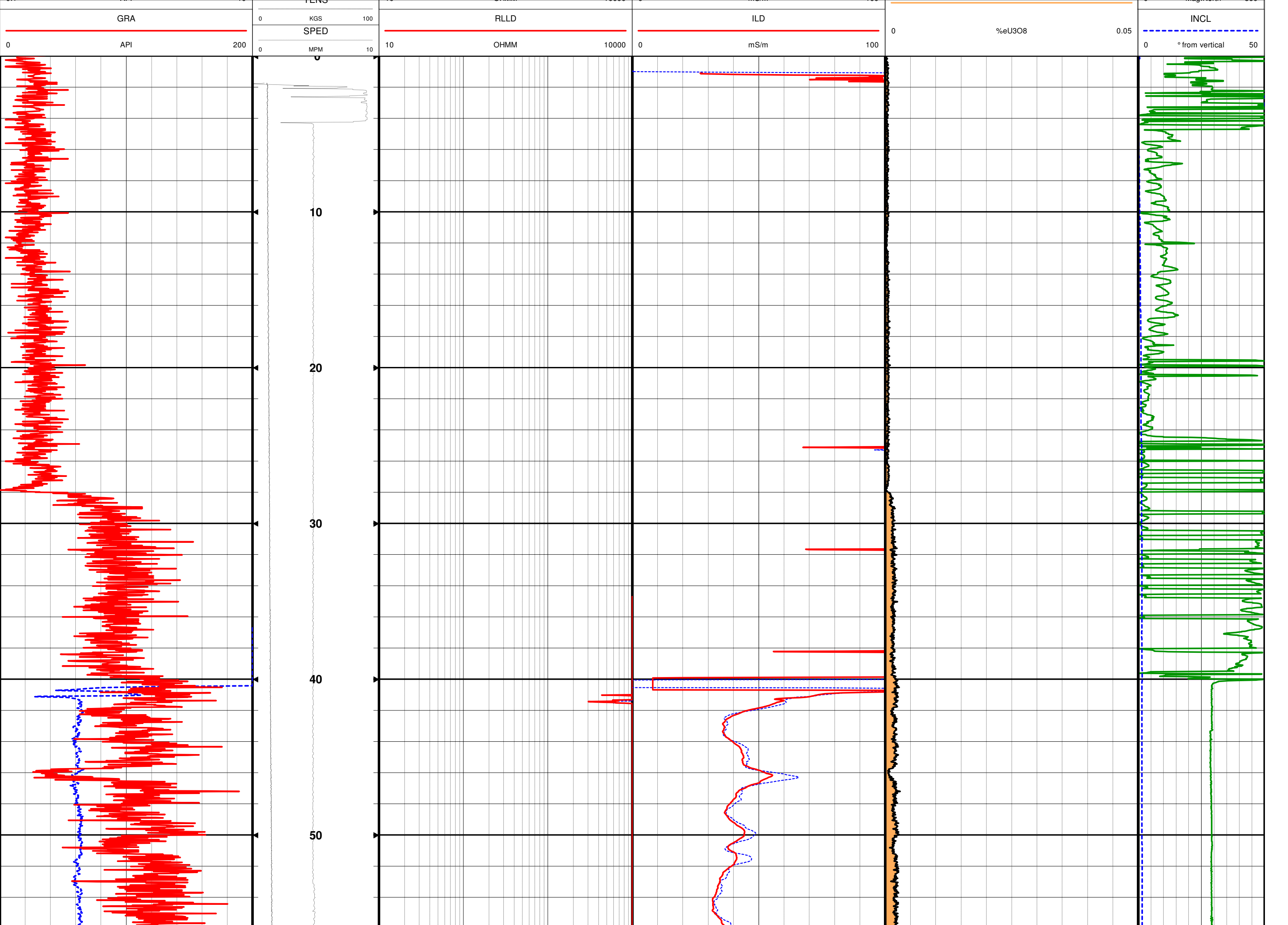
BH DEVIATION PLOTS

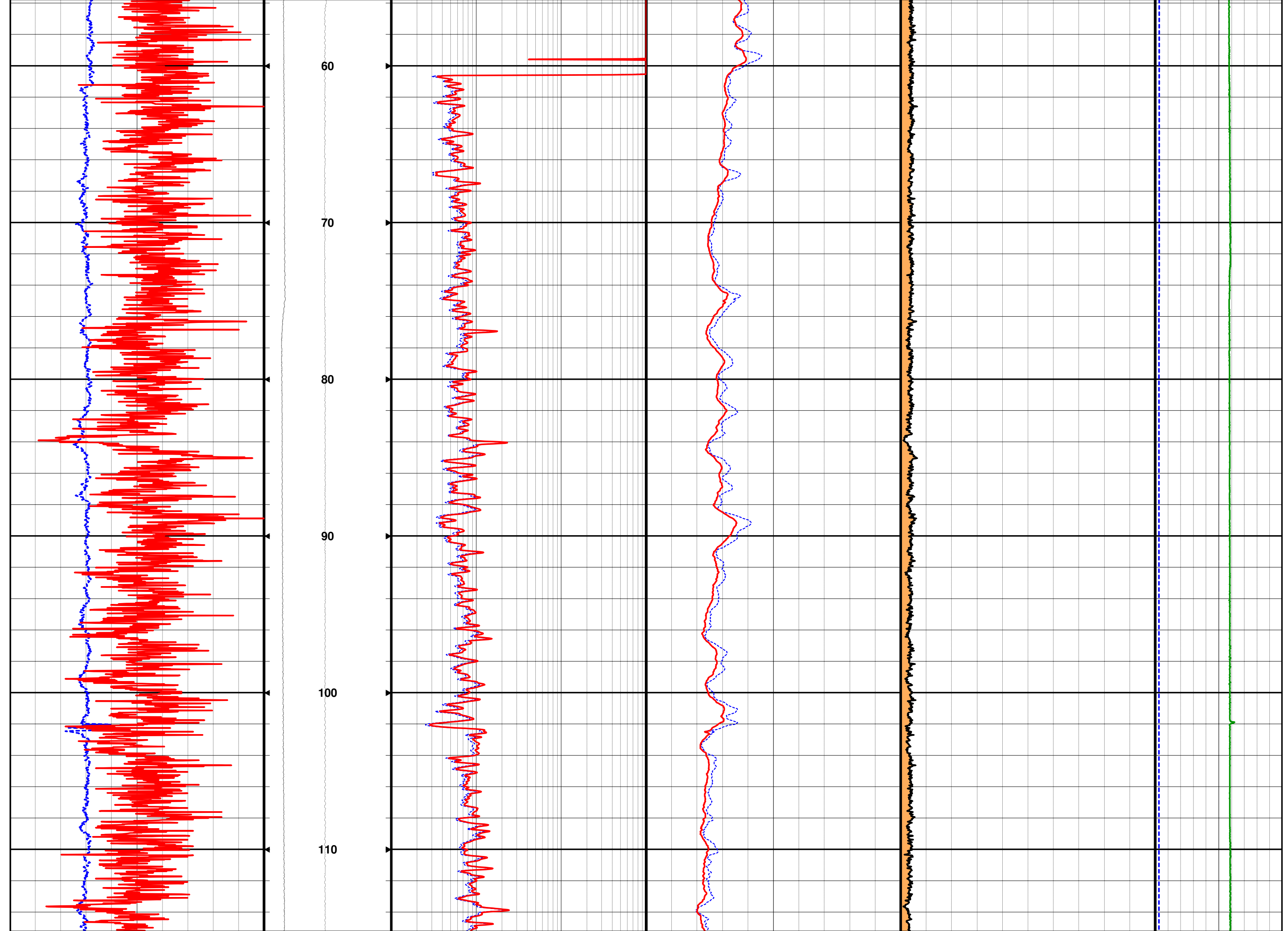


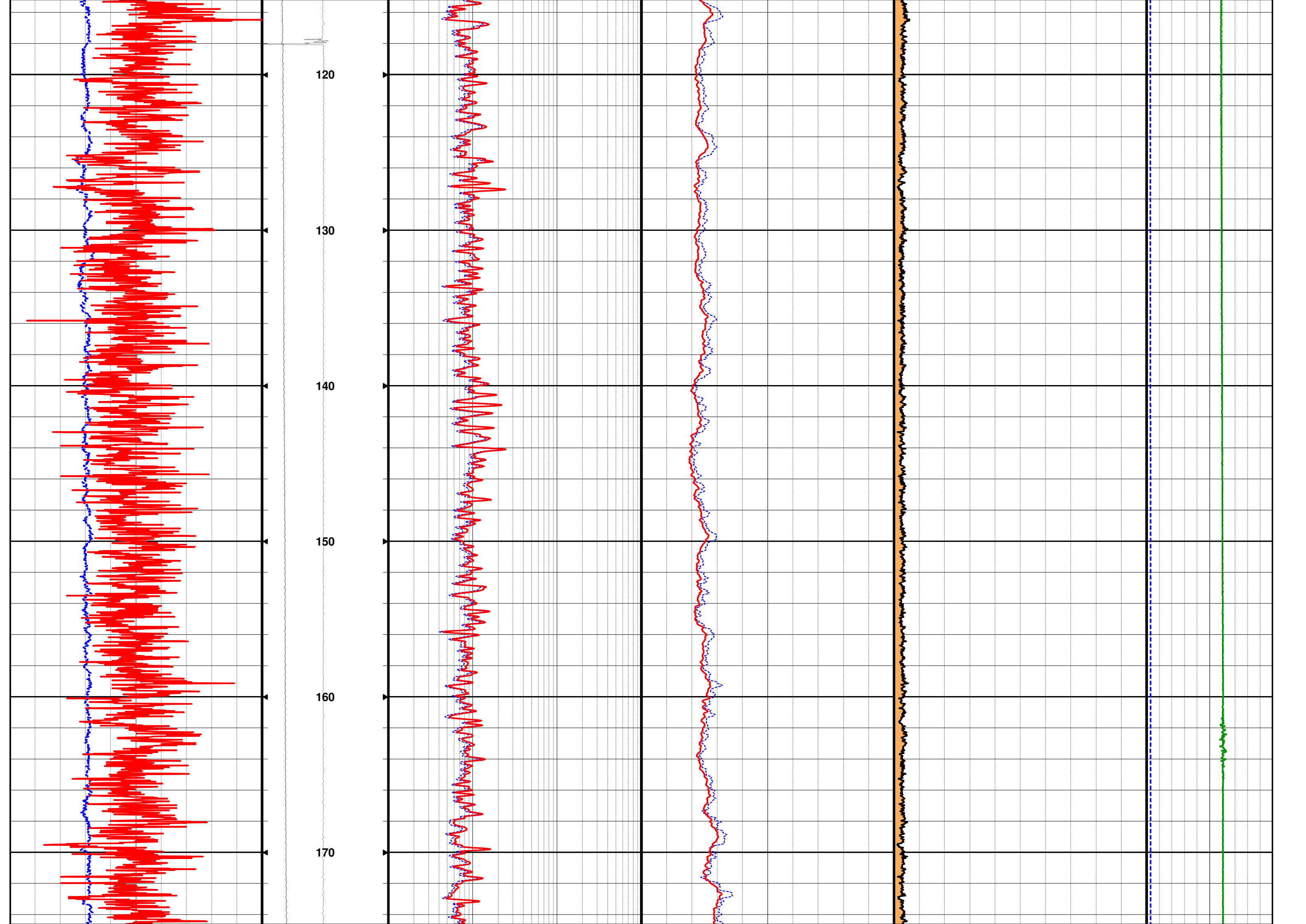
Depth [m] 1.6347
Horiz [m] 1.577

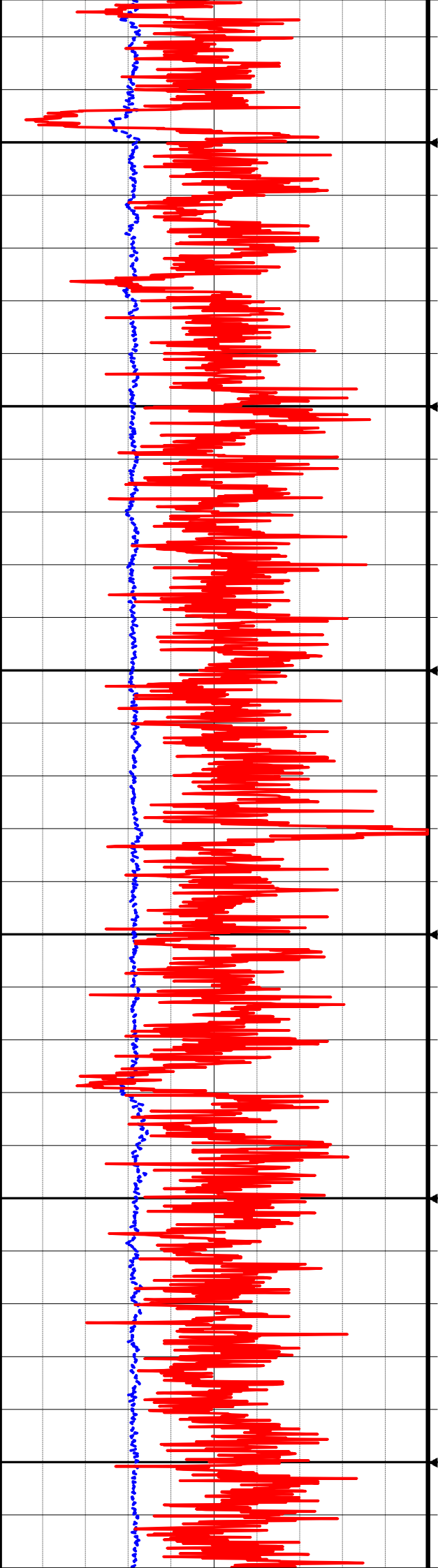
CS002











180

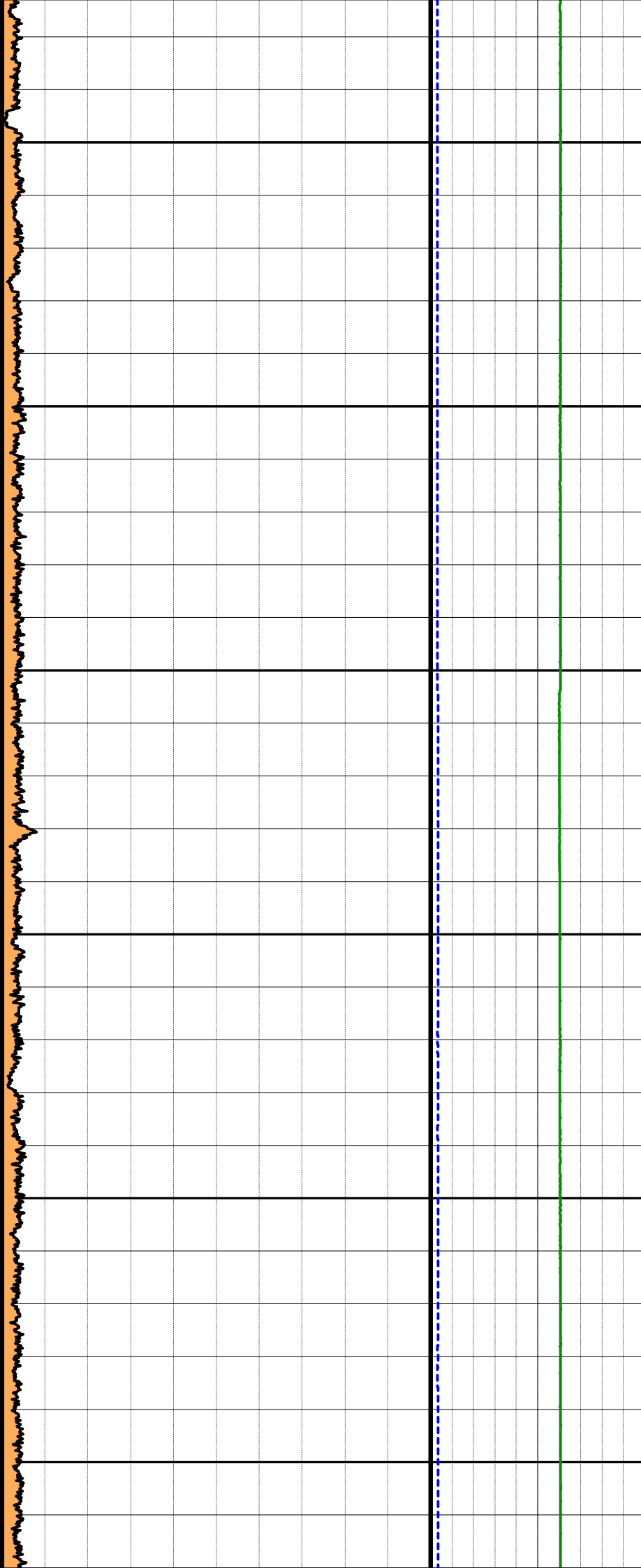
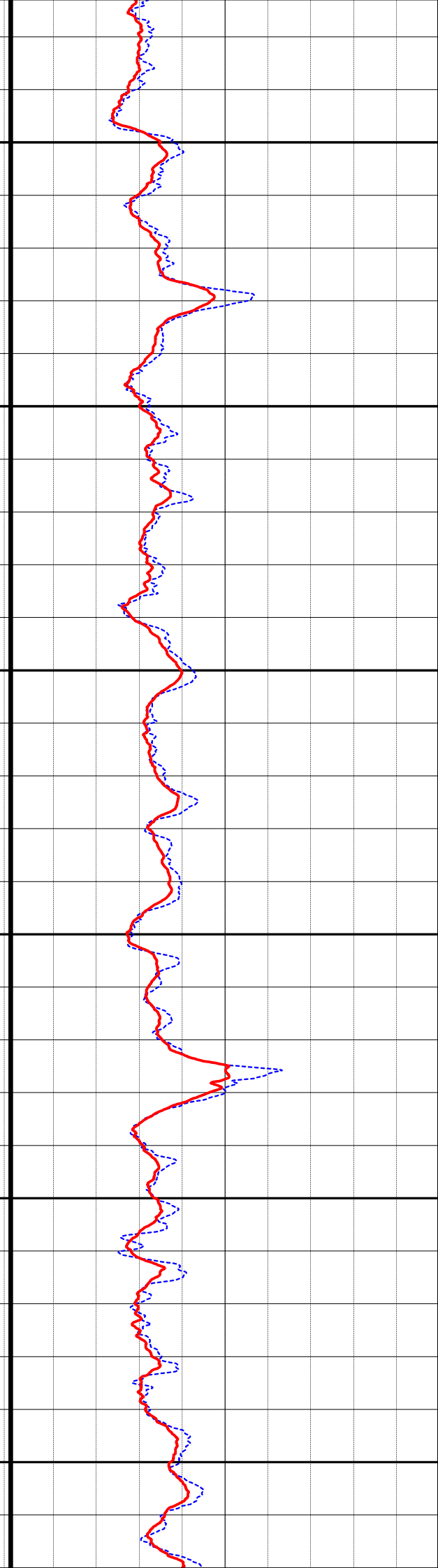
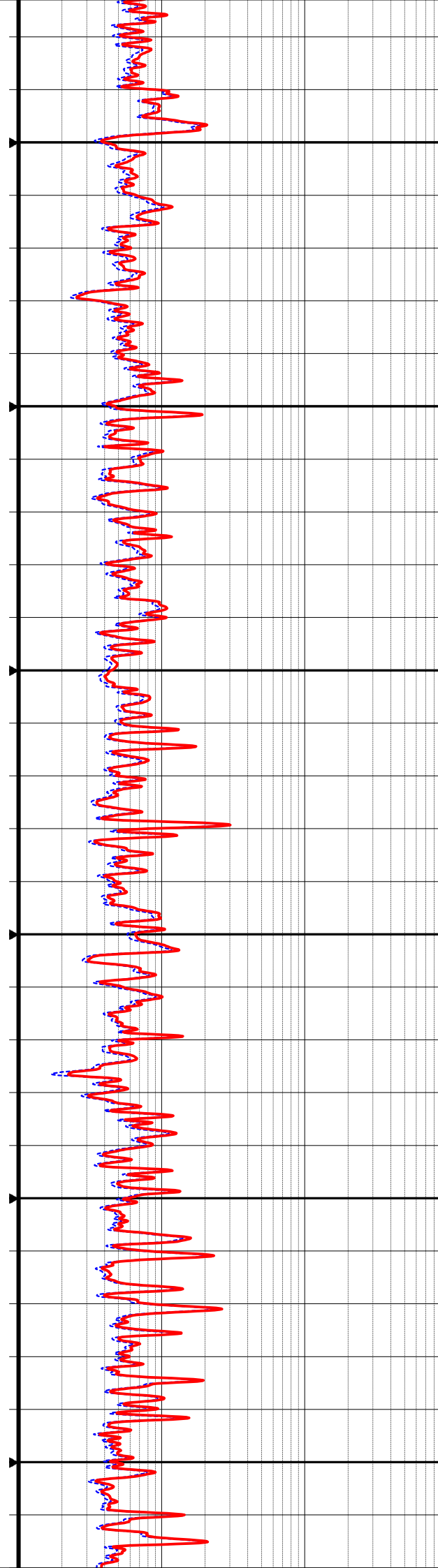
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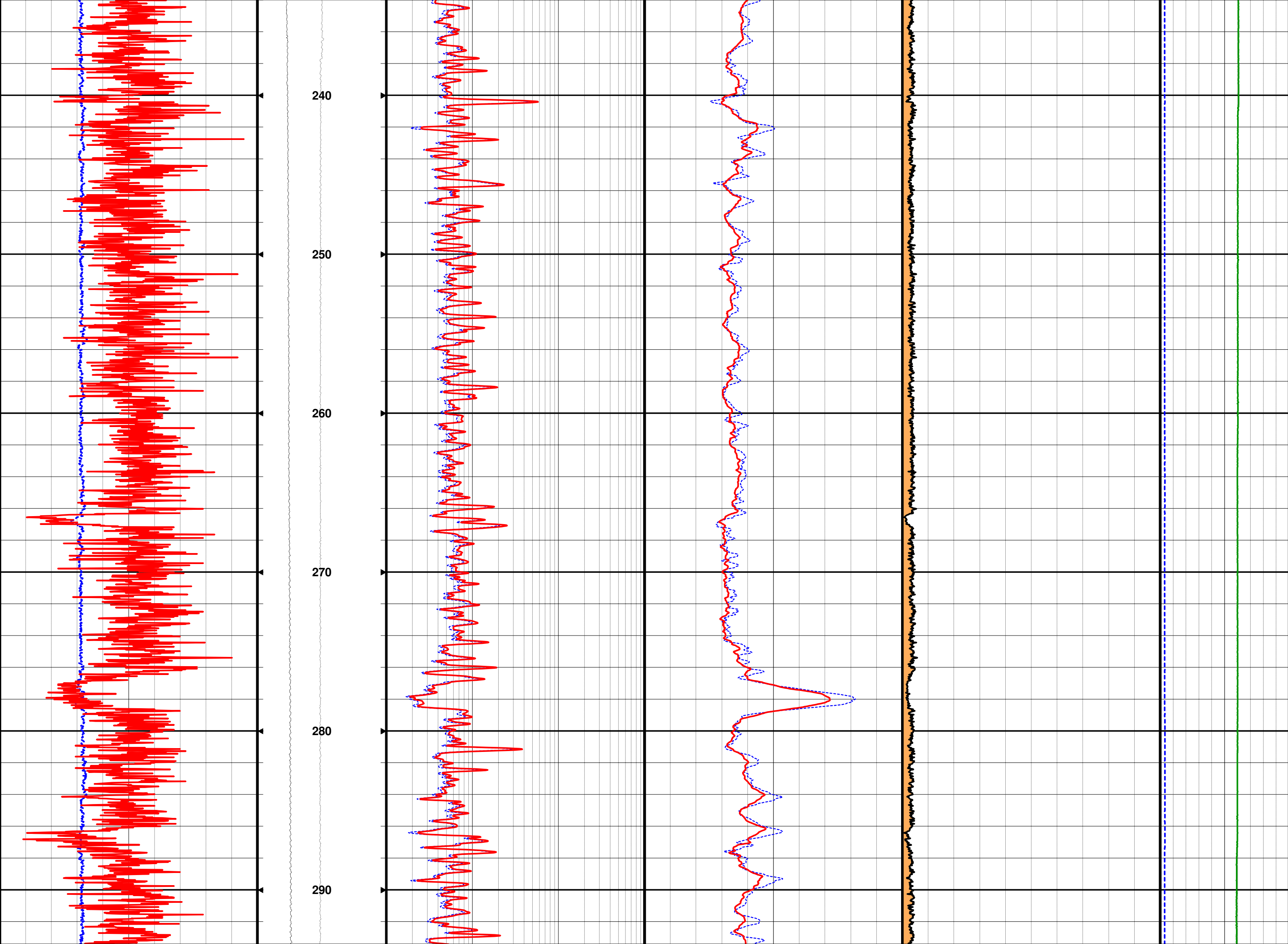
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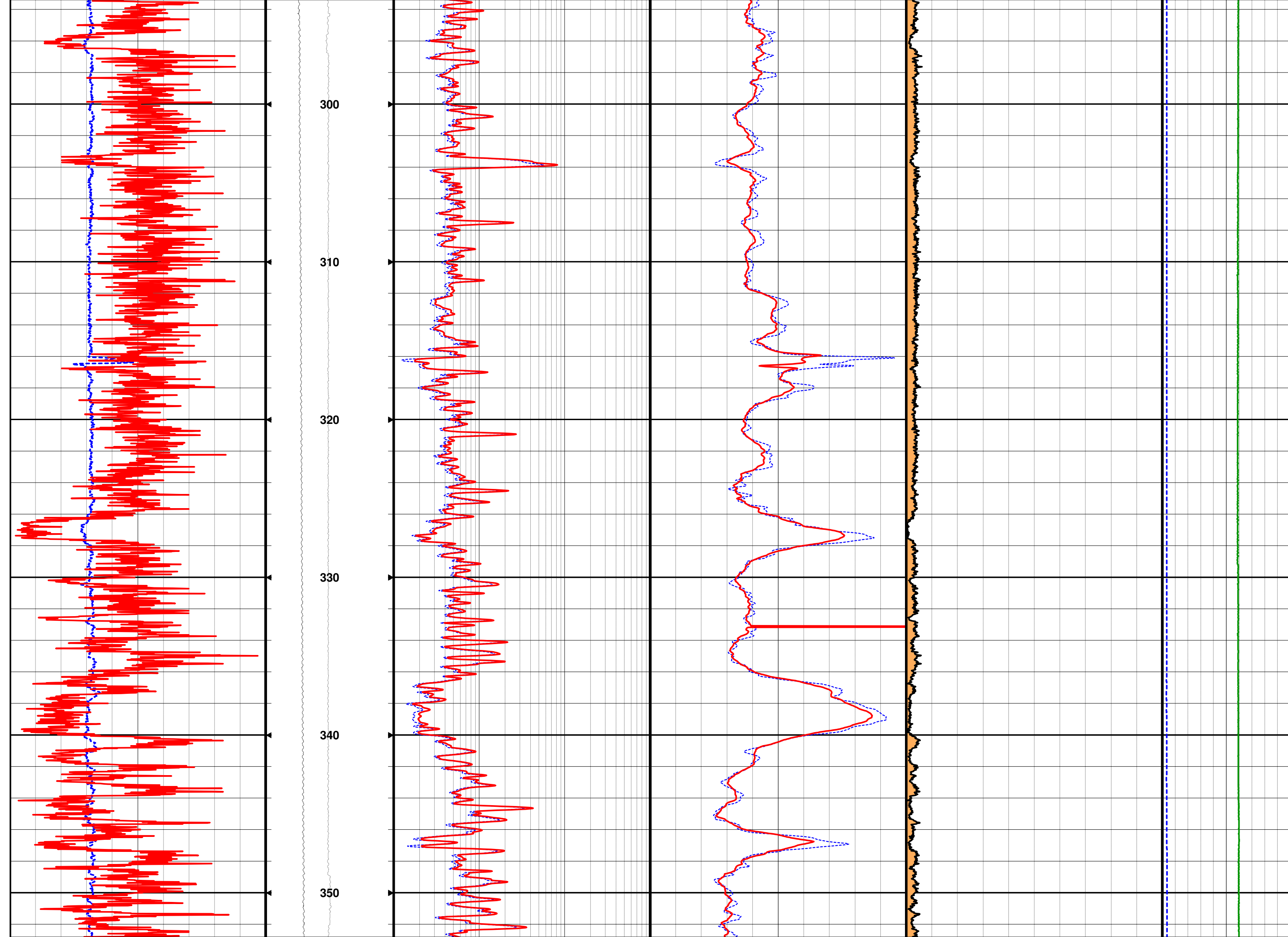
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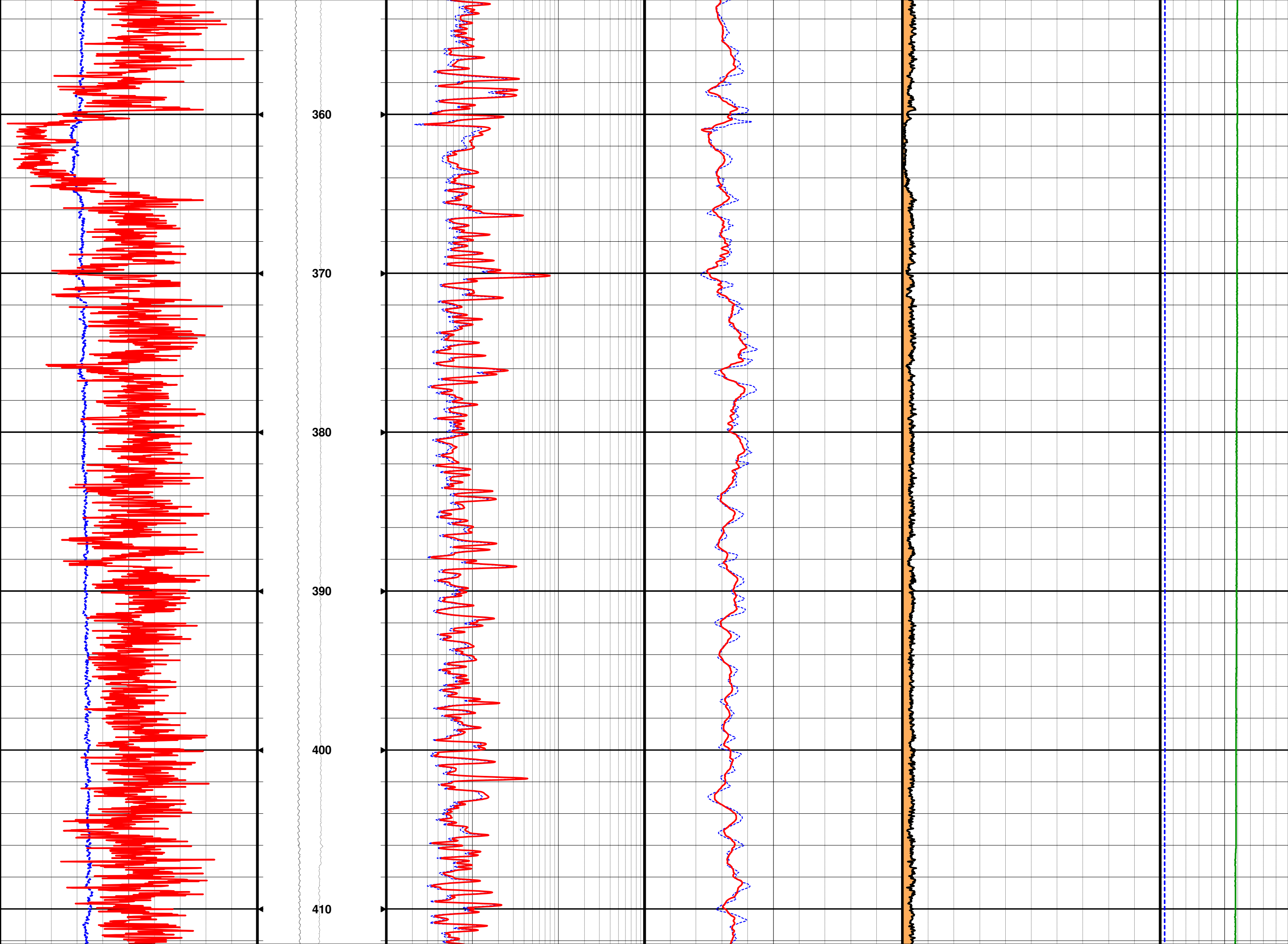
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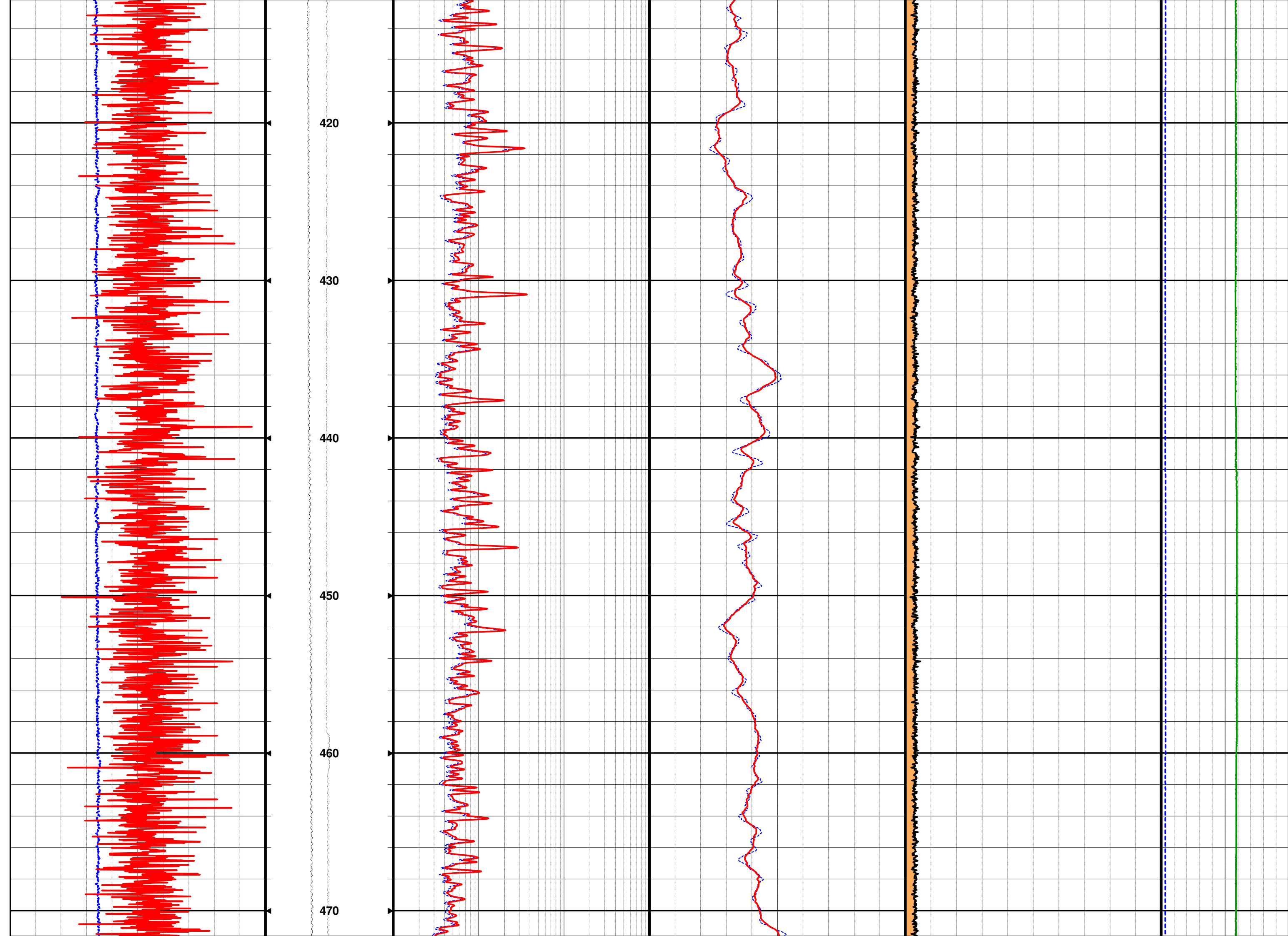
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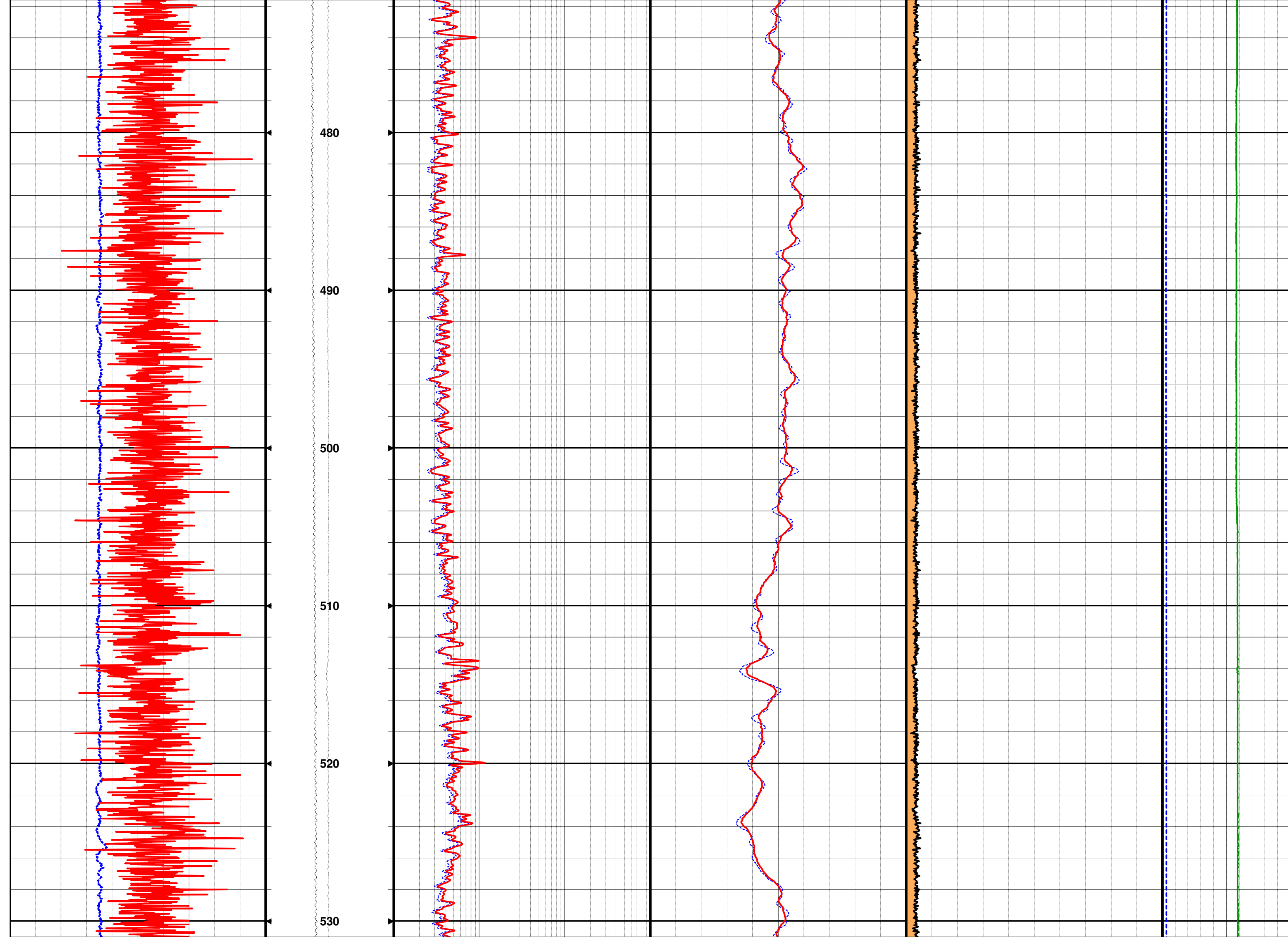


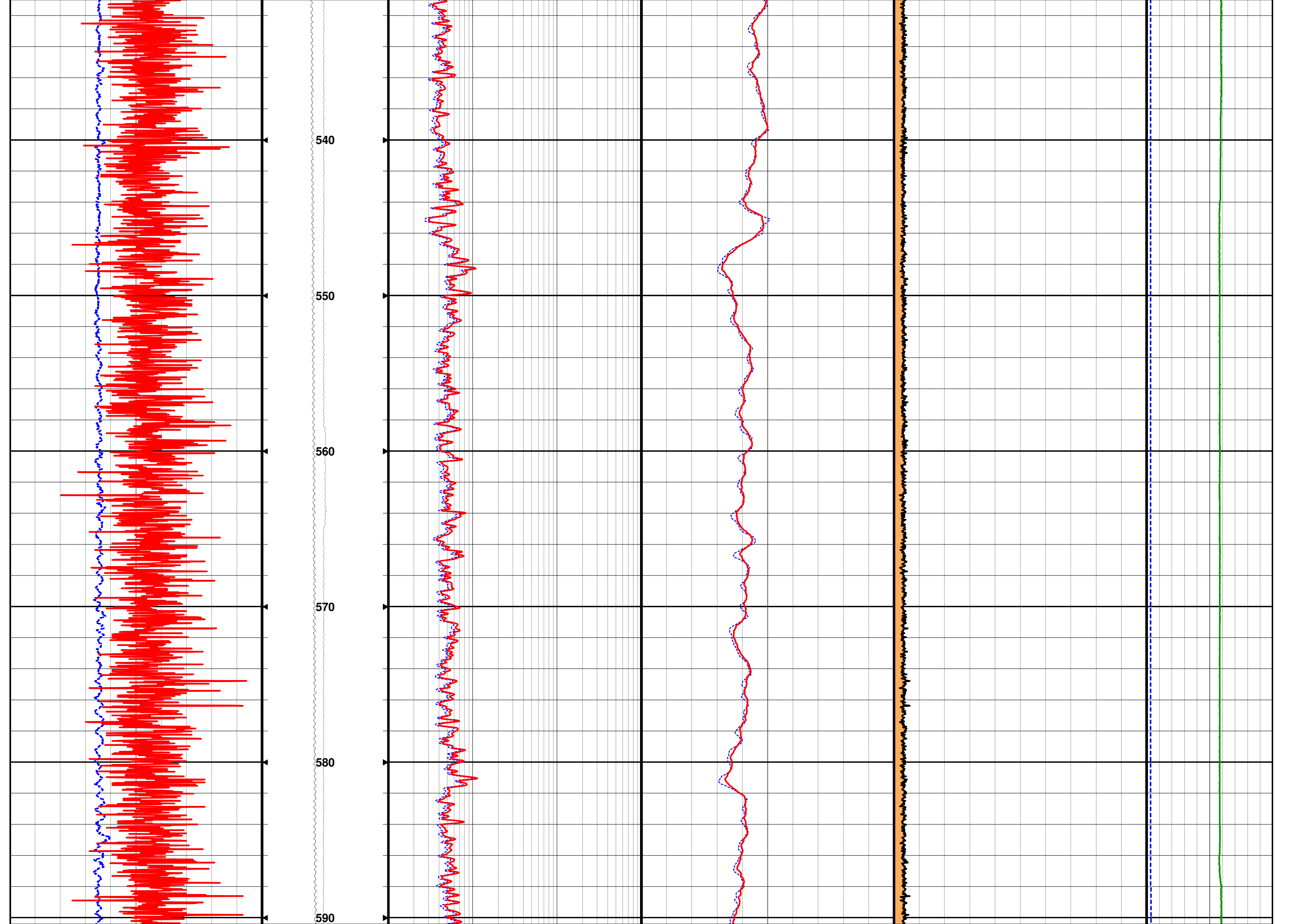


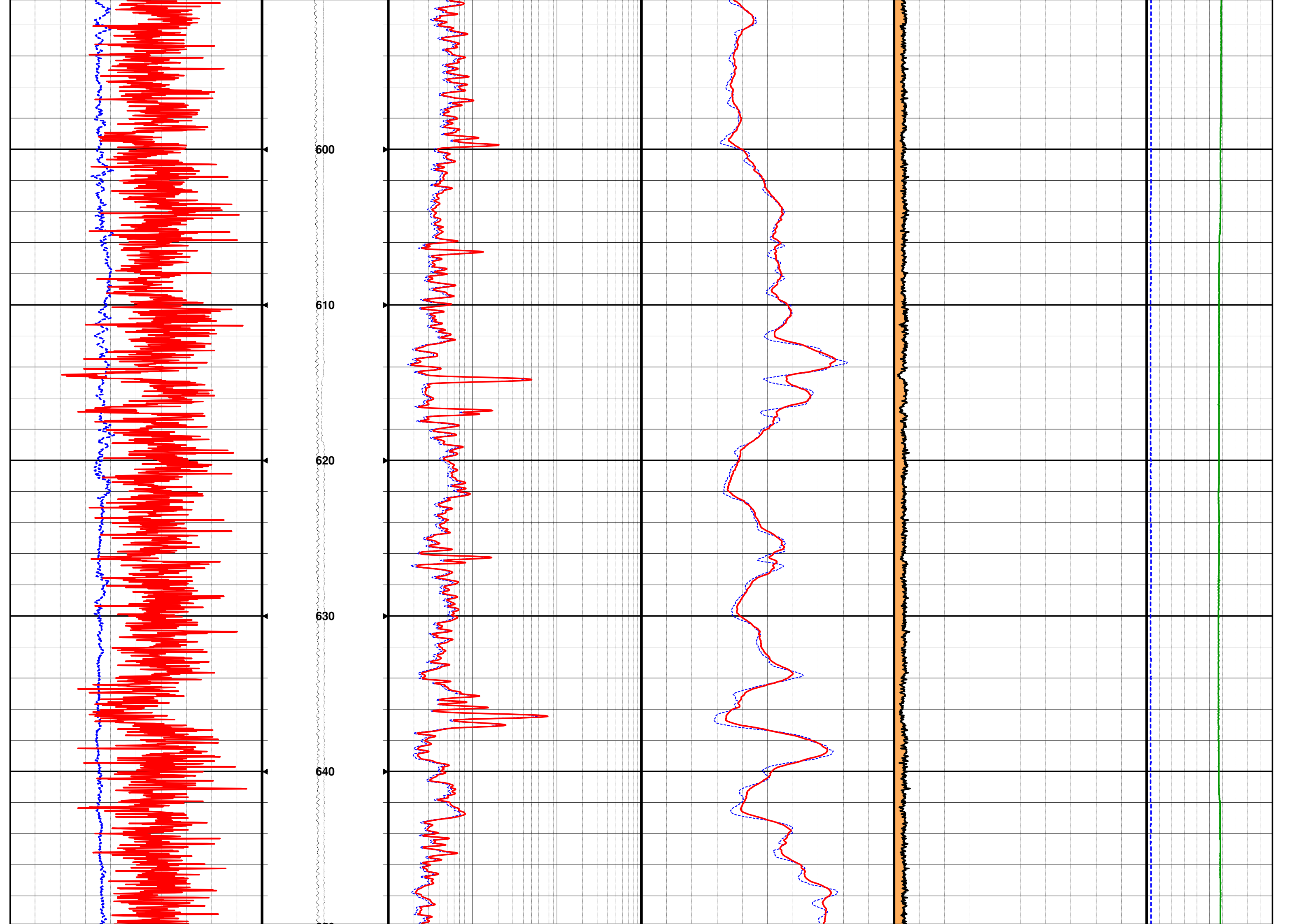


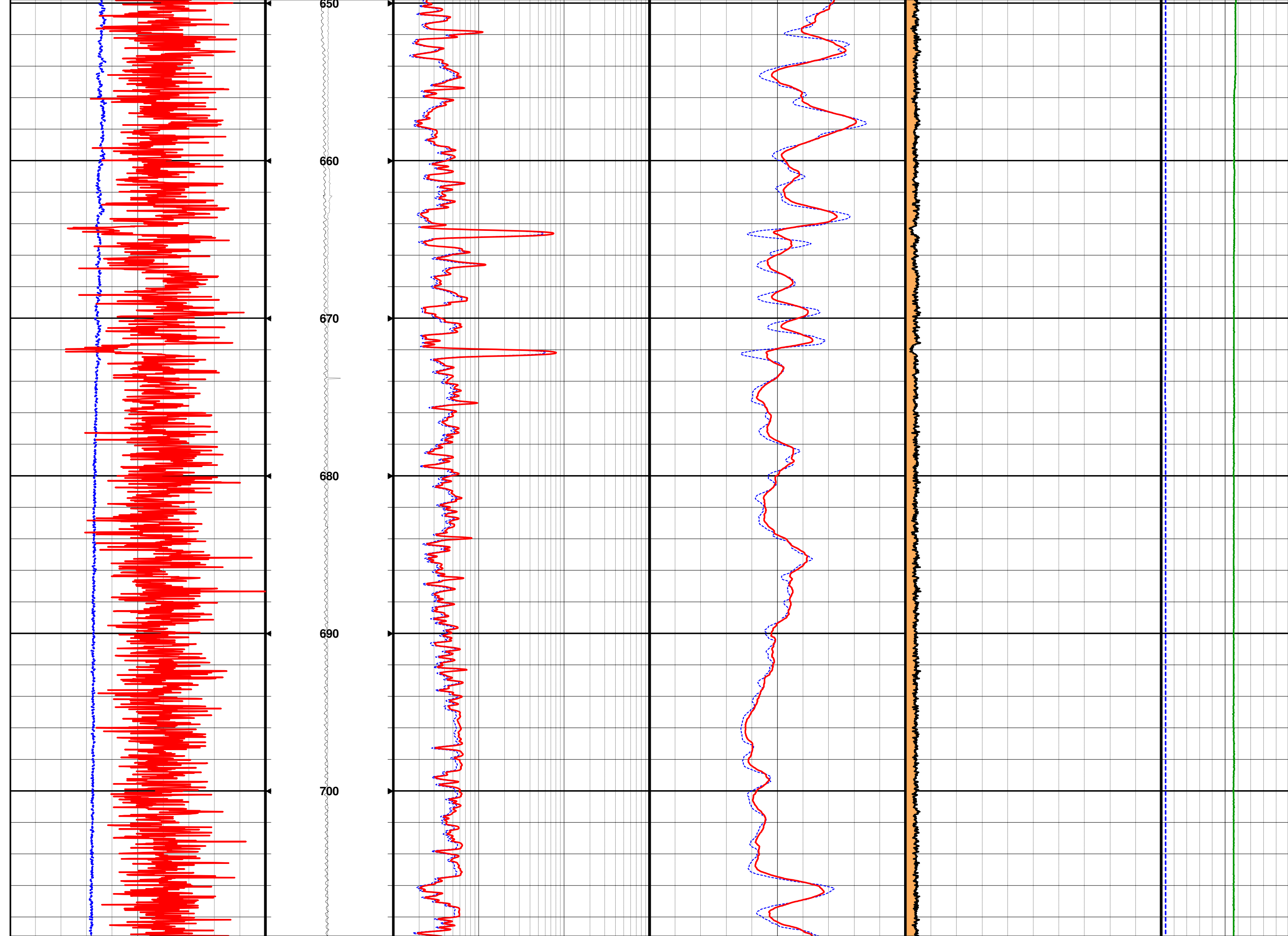


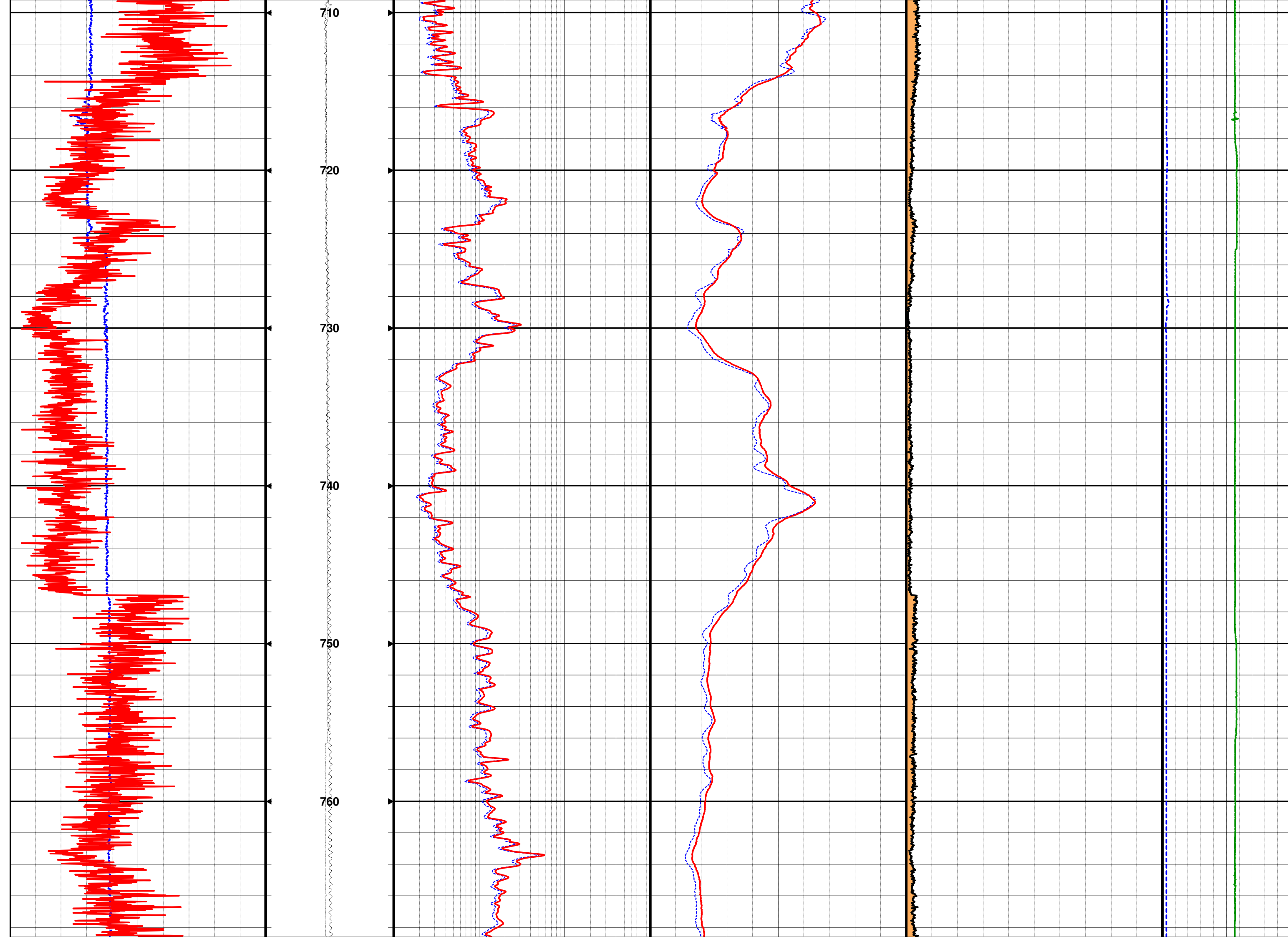


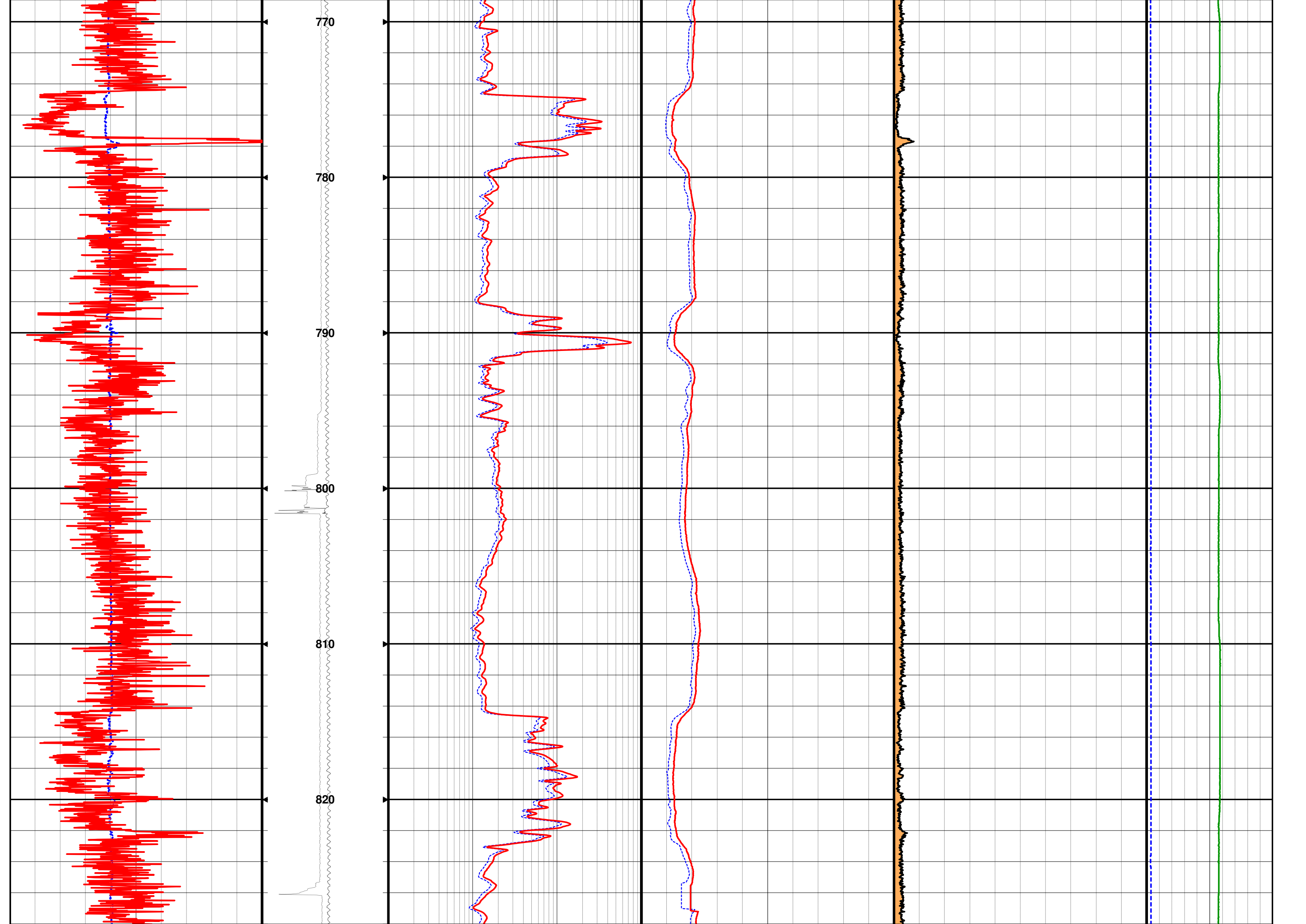


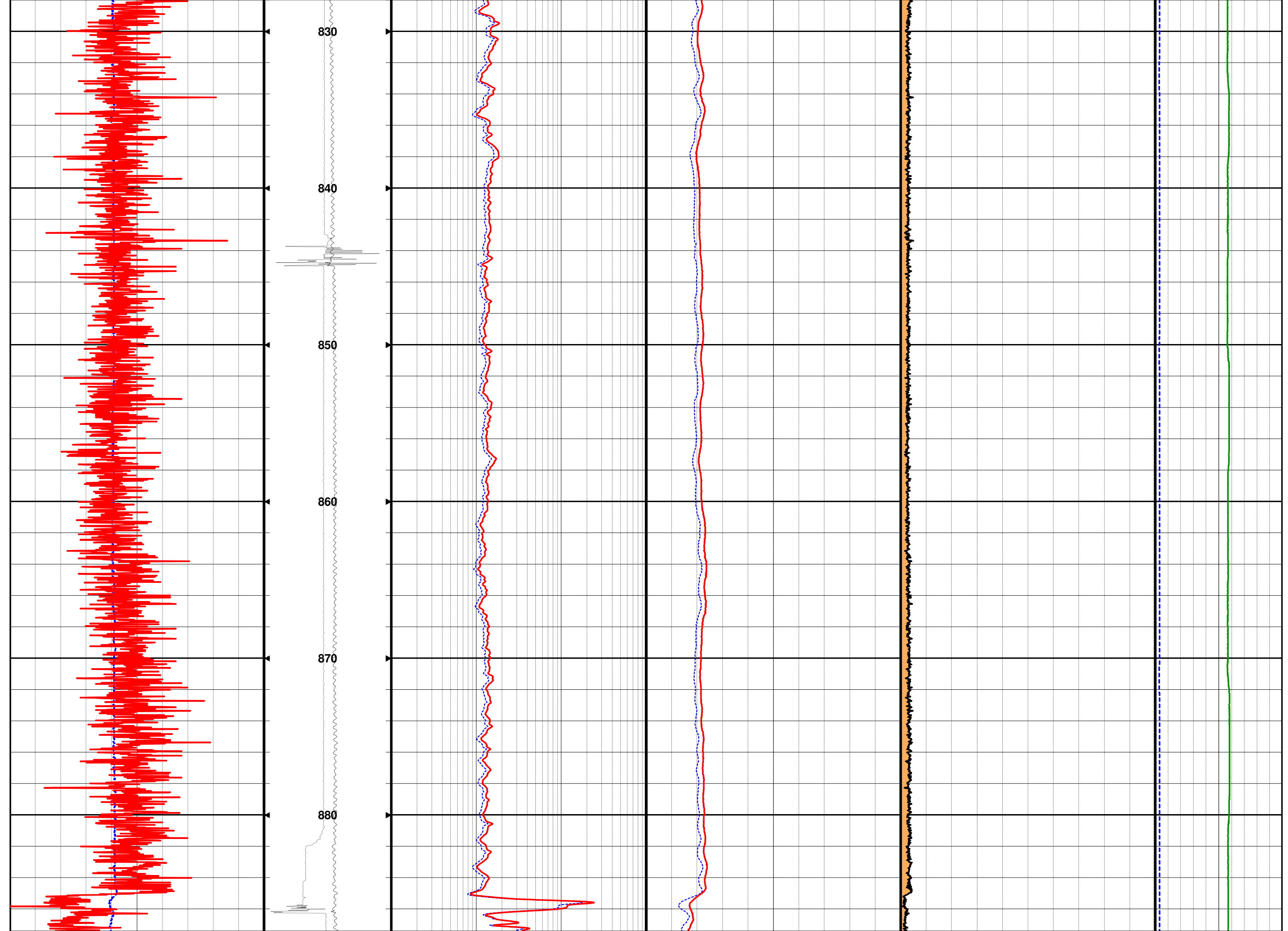


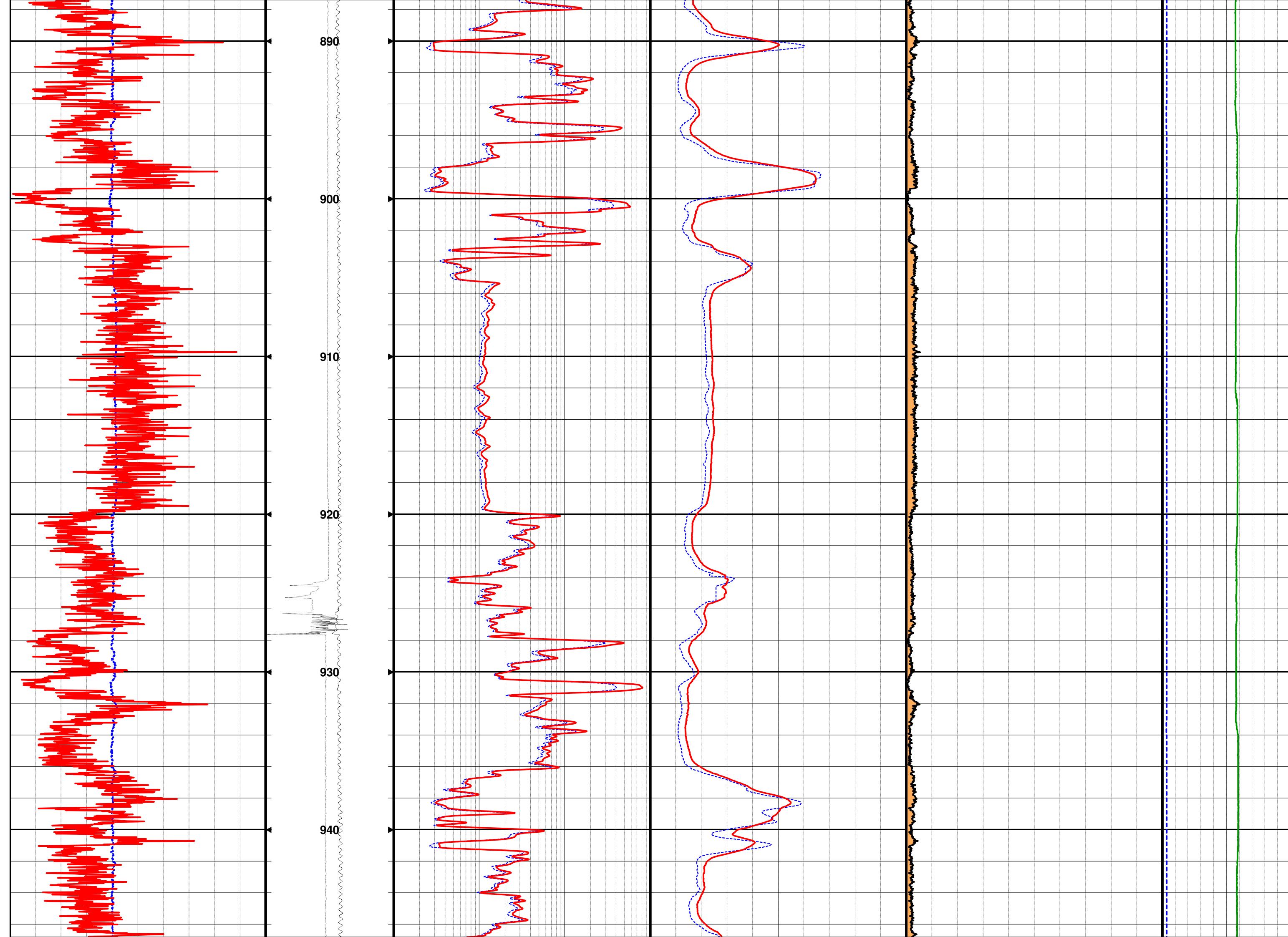


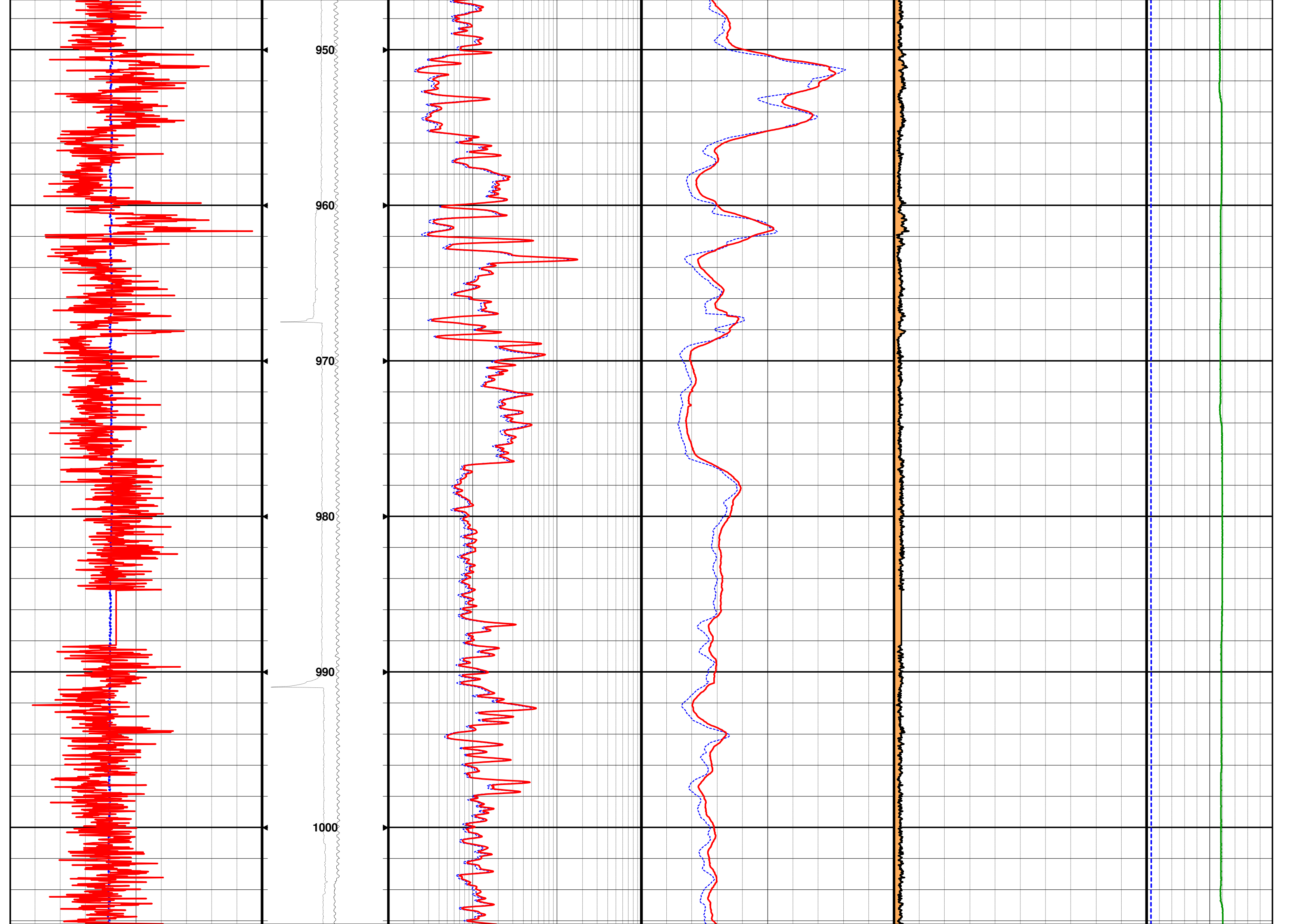


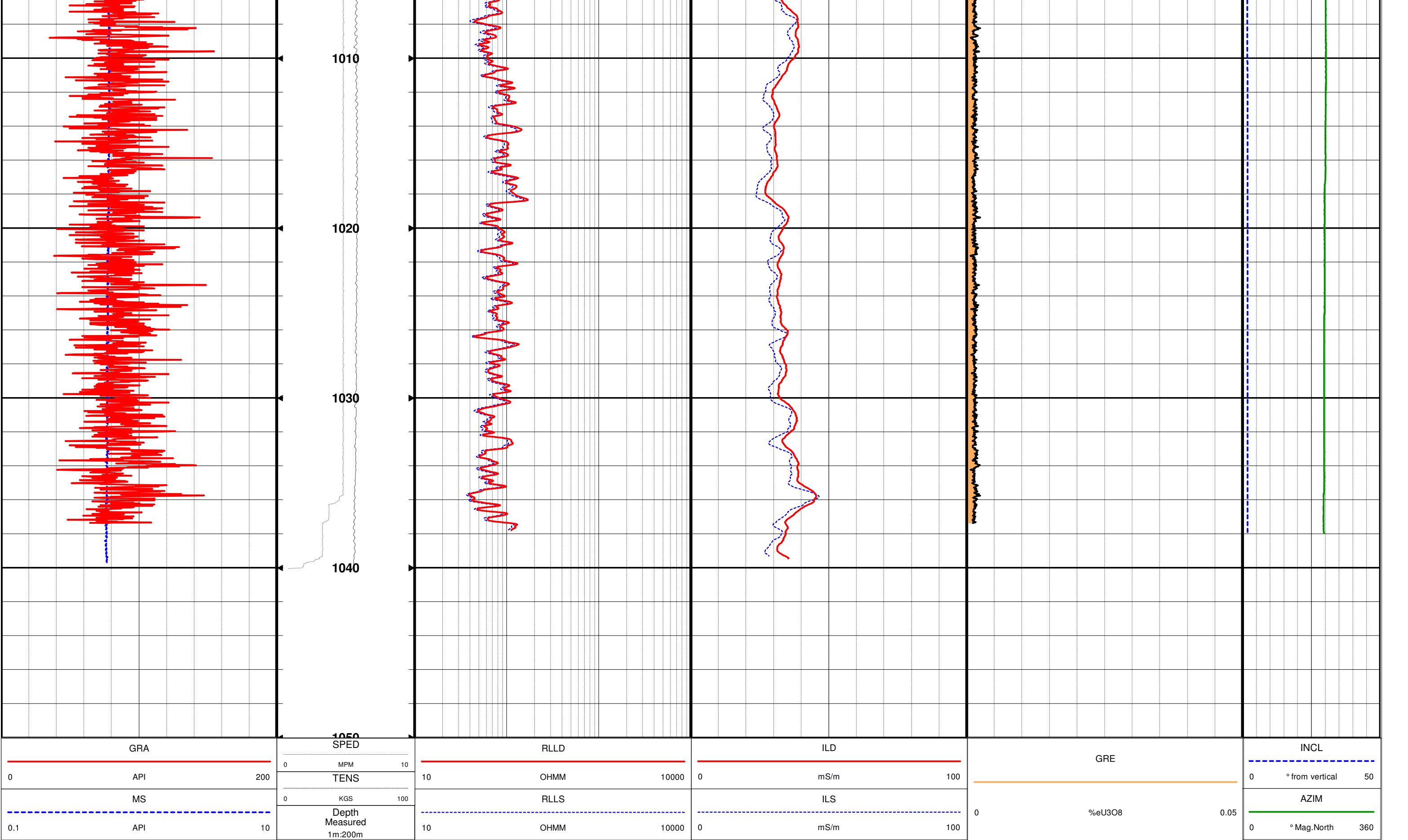












File Verification Listing of digital files supplied

Exploration Work Type	File_Name	Format
Office Studies		
Report preparation	EL4619_2013_PACE_01_FinalReport.pdf	pdf
Geochemical surveying		
Drill sampling	EL4619_2013_PACE_02_DrillholeCollars.txt	txt
	EL4619_2013_PACE_05_DrillholeGeochem.txt	txt
Drilling		
All drilling	EL4619_2013_PACE_02_DrillholeCollars.txt	txt
	EL4619_2013_PACE_03_DownholeSurveys.txt	txt
	EL4619_2013_PACE_04_DrillholeGeology.txt	txt
	EL4619_2013_PACE_05_DrillholeGeochem.txt	txt
File verification list	EL4619_2013_PACE_06_FileList.txt	txt