Initial Application Part I

Received 7/6/2021

This application is placed in file for record. It MAY or MAY NOT have been reviewed to be determined Administratively Complete

NNR85-210706-C-1080

Revised March 23, 2017

RECEIVED: 7/6/21	REVIEWER:	TYPE: SWD	APP NO: pBL2118844958

ABOVE THIS TABLE FOR OCD DIVISION USE ONLY

NEW MEXICO OIL CONSERVATION DIVISION
- Geological & Engineering Bureau –
1220 South St. Francis Drive, Santa Fe, NM 87505

ADMINISTRATIVE APPLICATION CHECKLIST

THIS CHECKLIST IS MANDATORY FOR ALL ADMINISTRATIVE APPLICATIONS FOR EXCEPTIONS TO DIVISION RULES AND REGULATIONS WHICH REQUIRE PROCESSING AT THE DIVISION LEVEL IN SANTA FE

Applicant: Enduring Resources IV, LLC **OGRID Number:** 372286
Well Name: WLU Unit 2309-24N WSW **API:** SJ-4301 POD3
Pool: Entrada **Pool Code:** 96436

SUBMIT ACCURATE AND COMPLETE INFORMATION REQUIRED TO PROCESS THE TYPE OF APPLICATION INDICATED BELOW

1) **TYPE OF APPLICATION:** Check those which apply for [A]
A. Location – Spacing Unit – Simultaneous Dedication
☐ NSL ☐ NSP (PROJECT AREA) ☐ NSP (PRORATION UNIT) ☐ SD SWD-2438

B. Check one only for [I] or [II]
[I] Commingling – Storage – Measurement
☐ DHC ☐ CTB ☐ PLC ☐ PC ☐ OLS ☐ OLM
[II] Injection – Disposal – Pressure Increase – Enhanced Oil Recovery
☐ WFX ☐ PMX ☒ SWD ☐ IPI ☐ EOR ☐ PPR

FOR OCD ONLY
☐ Notice Complete
☐ Application Content Complete

2) **NOTIFICATION REQUIRED TO:** Check those which apply.
A. ☒ Offset operators or lease holders
B. ☐ Royalty, overriding royalty owners, revenue owners
C. ☒ Application requires published notice
D. ☐ Notification and/or concurrent approval by SLO
E. ☒ Notification and/or concurrent approval by BLM
F. ☒ Surface owner
G. ☒ For all of the above, proof of notification or publication is attached, and/or,
H. ☐ No notice required

3) **CERTIFICATION:** I hereby certify that the information submitted with this application for administrative approval is **accurate** and **complete** to the best of my knowledge. I also understand that **no action** will be taken on this application until the required information and notifications are submitted to the Division.

Note: Statement must be completed by an individual with managerial and/or supervisory capacity.

Deidre Duffy
Print or Type Name

Signature

2/24/2021
Date

808-352-0200
Phone Number

deidre.duffy@wsp.com
e-mail Address

STATE OF NEW MEXICO
ENERGY, MINERALS AND NATURAL
RESOURCES DEPARTMENT

Oil Conservation Division
1220 South St. Francis Dr.
Santa Fe, New Mexico 87505

FORM C-108
Revised June 10, 2003

APPLICATION FOR AUTHORIZATION TO INJECT

I. PURPOSE: _____Secondary Recovery _____Pressure Maintenance __XX__Disposal _____Storage
Application qualifies for administrative approval? __XX__Yes _____No

II. OPERATOR: Enduring Resources IV, LLC

ADDRESS: 200 Energy Court, Farmington, New Mexico 87401

CONTACT PARTY: Deidre Duffy PHONE: 808-352-0200

III. WELL DATA: Complete the data required on the reverse side of this form for each well proposed for injection. Additional sheets may be attached if necessary.

IV. Is this an expansion of an existing project? _____Yes __XX__No
If yes, give the Division order number authorizing the project: _____

V. Attach a map that identifies all wells and leases within two miles of any proposed injection well with a one-half mile radius circle drawn around each proposed injection well. This circle identifies the well's area of review.

VI. Attach a tabulation of data on all wells of public record within the area of review which penetrate the proposed injection zone. Such data shall include a description of each well's type, construction, date drilled, location, depth, record of completion, and a schematic of any plugged well illustrating all plugging detail.

VII. Attach data on the proposed operation, including:

1. Proposed average and maximum daily rate and volume of fluids to be injected;
2. Whether the system is open or closed;
3. Proposed average and maximum injection pressure;
4. Sources and an appropriate analysis of injection fluid and compatibility with the receiving formation if other than reinjected produced water; and,
5. If injection is for disposal purposes into a zone not productive of oil or gas at or within one mile of the proposed well, attach a chemical analysis of the disposal zone formation water (may be measured or inferred from existing literature, studies, nearby wells, etc.).

*VIII. Attach appropriate geologic data on the injection zone including appropriate lithologic detail, geologic name, thickness, and depth. Give the geologic name, and depth to bottom of all underground sources of drinking water (aquifers containing waters with total dissolved solids concentrations of 10,000 mg/l or less) overlying the proposed injection zone as well as any such sources known to be immediately underlying the injection interval.

IX. Describe the proposed stimulation program, if any.

*X. Attach appropriate logging and test data on the well. (If well logs have been filed with the Division, they need not be resubmitted).

*XI. Attach a chemical analysis of fresh water from two or more fresh water wells (if available and producing) within one mile of any injection or disposal well showing location of wells and dates samples were taken.

XII. Applicants for disposal wells must make an affirmative statement that they have examined available geologic and engineering data and find no evidence of open faults or any other hydrologic connection between the disposal zone and any underground sources of drinking water.

XIII. Applicants must complete the "Proof of Notice" section on the reverse side of this form.

XIV. Certification: I hereby certify that the information submitted with this application is true and correct to the best of my knowledge and belief.

NAME: Deidre Duffy, WSP USA Inc. TITLE: Senior Ecologist

SIGNATURE:  DATE: 2/24/2021

E-MAIL ADDRESS: deidre.duffy@wsp.com

* If the information required under Sections VI, VIII, X, and XI above has been previously submitted, it need not be resubmitted. Please show the date and circumstances of the earlier submittal: _____

DISTRIBUTION: Original and one copy to Santa Fe with one copy to the appropriate District Office

Side 2

III. WELL DATA

A. The following well data must be submitted for each injection well covered by this application. The data must be both in tabular and schematic form and shall include:

(1) Lease name; Well No.; Location by Section, Township and Range; and footage location within the section.

(2) Each casing string used with its size, setting depth, sacks of cement used, hole size, top of cement, and how such top was determined.

(3) A description of the tubing to be used including its size, lining material, and setting depth.

(4) The name, model, and setting depth of the packer used or a description of any other seal system or assembly used.

Division District Offices have supplies of Well Data Sheets which may be used or which may be used as models for this purpose. Applicants for several identical wells may submit a "typical data sheet" rather than submitting the data for each well.

B. The following must be submitted for each injection well covered by this application. All items must be addressed for the initial well. Responses for additional wells need be shown only when different. Information shown on schematics need not be repeated.

(1) The name of the injection formation and, if applicable, the field or pool name.

(2) The injection interval and whether it is perforated or open-hole.

(3) State if the well was drilled for injection or, if not, the original purpose of the well.

(4) Give the depths of any other perforated intervals and detail on the sacks of cement or bridge plugs used to seal off such perforations.

(5) Give the depth to and the name of the next higher and next lower oil or gas zone in the area of the well, if any.

XIV. PROOF OF NOTICE

All applicants must furnish proof that a copy of the application has been furnished, by certified or registered mail, to the owner of the surface of the land on which the well is to be located and to each leasehold operator within one-half mile of the well location.

Where an application is subject to administrative approval, a proof of publication must be submitted. Such proof shall consist of a copy of the legal advertisement which was published in the county in which the well is located. The contents of such advertisement must include:

(1) The name, address, phone number, and contact party for the applicant;

(2) The intended purpose of the injection well; with the exact location of single wells or the Section, Township, and Range location of multiple wells;

(3) The formation name and depth with expected maximum injection rates and pressures; and,

(4) A notation that interested parties must file objections or requests for hearing with the Oil Conservation Division, 1220 South St. Francis Dr., Santa Fe, New Mexico 87505, within 15 days.

NO ACTION WILL BE TAKEN ON THE APPLICATION UNTIL PROPER PROOF OF NOTICE HAS BEEN SUBMITTED.

NOTICE: Surface owners or offset operators must file any objections or requests for hearing of administrative applications within 15 days from the date this application was mailed to them.

Side 1

INJECTION WELL DATA SHEET

OPERATOR: Enduring Resources IV, LLC

WELL NAME & NUMBER: SJ-4301 POD3 (WLU Unit 2309-24N WSW)

WELL LOCATION:	294' FSL, 2284' FWL	N	24	23N	9W
	FOOTAGE LOCATION	UNIT LETTER	SECTION	TOWNSHIP	RANGE

WELLBORE SCHEMATIC

See attachment for wellbore diagram

WELL CONSTRUCTION DATA

Surface Casing

Hole Size: 17.5" Casing Size: 13 3/8 " J55 Steel

Cemented with: 440 sx. ***or*** _____ ft^3

Top of Cement: surface Method Determined: circ.

Intermediate Casing

Hole Size: _____ Casing Size: _____

Cemented with: _____ sx. ***or*** _____ ft^3

Top of Cement: _____ Method Determined: _____

Production Casing

Hole Size: 8.75" Casing Size: 7" L80 Steel

Cemented with: 945 sx. ***or*** _____ ft^3

Top of Cement: surface Method Determined: circ.

Total Depth: 7260' PBTD

Injection Interval

6851' TVD feet to 6990' TVD

(Perforated or Open Hole; indicate which)

INJECTION WELL DATA SHEET

Tubing Size: 4.5" Lining Material: Internally coated corrosion resistant tubing

Type of Packer: Dual grip packer, coated with corrosion resistant material

Packer Setting Depth: 6803'

Other Type of Tubing/Casing Seal (if applicable): _____

Additional Data

1. Is this a new well drilled for injection? _____Yes X No

   If no, for what purpose was the well originally drilled? Water diversion for oil well fracturing

   _____

2. Name of the Injection Formation: Entrada

3. Name of Field or Pool (if applicable): Entrada Pool 964360

4. Has the well ever been perforated in any other zone(s)? List all such perforated intervals and give plugging detail, i.e. sacks of cement or plug(s) used. No, N/A

   _____

5. Give the name and depths of any oil or gas zones underlying or overlying the proposed injection zone in this area: _____

   See attached geologic and reservoir information

   _____

   _____

: YELLOW-HIGHLIGHTED ENTRIES MAY REQUIRE RECALCULATION BY PERMITTEE

ENDURING RESOURCES IV, LLC
511 SIXTEENTH STREET, SUITE 700
DENVER, COLORADO 80202

DRILLING PLAN: *Drill, complete, and equip water supply well in the Entrada formation*

WELL INFORMATION:

Name: West Lybrook Unit 2309-24N WSW (SJ-4301 POD3)
State: New Mexico
County: San Juan
Surface Elevation: 6,878 ft ASL (GL) 6,892 ft ASL (KB)
Surface Location: 24-23N-09W Sec-Twn-Rng TBD ft FNL TBD ft FEL
TBD ° N latitude TBD ° W longitude (NAD 83)
BH Location: 24-23N-09W Sec-Twn-Rng TBD ft FNL TBD ft FWL
TBD ° N latitude TBd ° W longitude (NAD 83)
Driving Directions: From the intersection of US Hwy 550 & US Hwy 64 in Bloomfield, NM: south on 550 for approximately 50 miles to Enduring Gallup fireld. Exact directions TBD.

GEOLOGIC AND RESERVOIR INFORMATION:

Prognosis:

Formation Tops	TVD (ft ASL)	TVD (ft KB)	MD (ft KB)	O / G / W	Pressure
Ojo Alamo	6,797	95	95	W	normal
Kirtland	6,577	315	315	W	normal
Fruitland	6,467	425	425	G, W	sub
Pictured Cliffs	6,167	725	725	G, W	sub
Lewis	5,992	900	900	G, W	normal
Chacra	5,827	1,065	1,065	G, W	normal
Cliff House	5,442	1,450	1,450	G, W	sub
Menefee	4,692	2,200	2,200	G, W	normal
Point Lookout	3,767	3,125	3,125	G, W	normal
Mancos	3,542	3,350	3,350	O,G	normal
Gallup	3,342	3,550	3,550	O,G	normal
Base Greenhorn	1,827	5,065	5,065	G, W	normal
Dakota	1,777	5,115	5,115	G, W	normal
Morrison	1,517	5,375	5,375	G, W	normal
Todilto	697	6,195	6,195	G, W	normal
Entrada	642	6,250	6,250	O,G,W	normal
TOTAL DEPTH	142	6,750	6,750	O,G,W	normal

Surface: Nacimiento
Oil & Gas Zones: Several gas bearing zones will be encountered; target formation is the Entrada
Pressure: Normal (0.43 psi/ft) or sub-normal pressure gradient anticipated in all formations
Max. pressure gradient: 0.43 psi/ft Evacuated hole gradient: 0.22 psi/ft
Maximum anticipated BH pressure, assuming maximum pressure gradient: 2,690 psi
Maximum anticipated surface pressure, assuming partially evacuated hole: 1,320 psi
Temperature: Maximum anticipated BHT is 205° F or less

H_2S INFORMATION:

H_2S Zones: Encountering hydrogen-sulfide bearing zones is NOT anticipated.
Safety: Sensors and alarms will be placed in the substructure, on the rig floor, above the pits, and at the shakers.

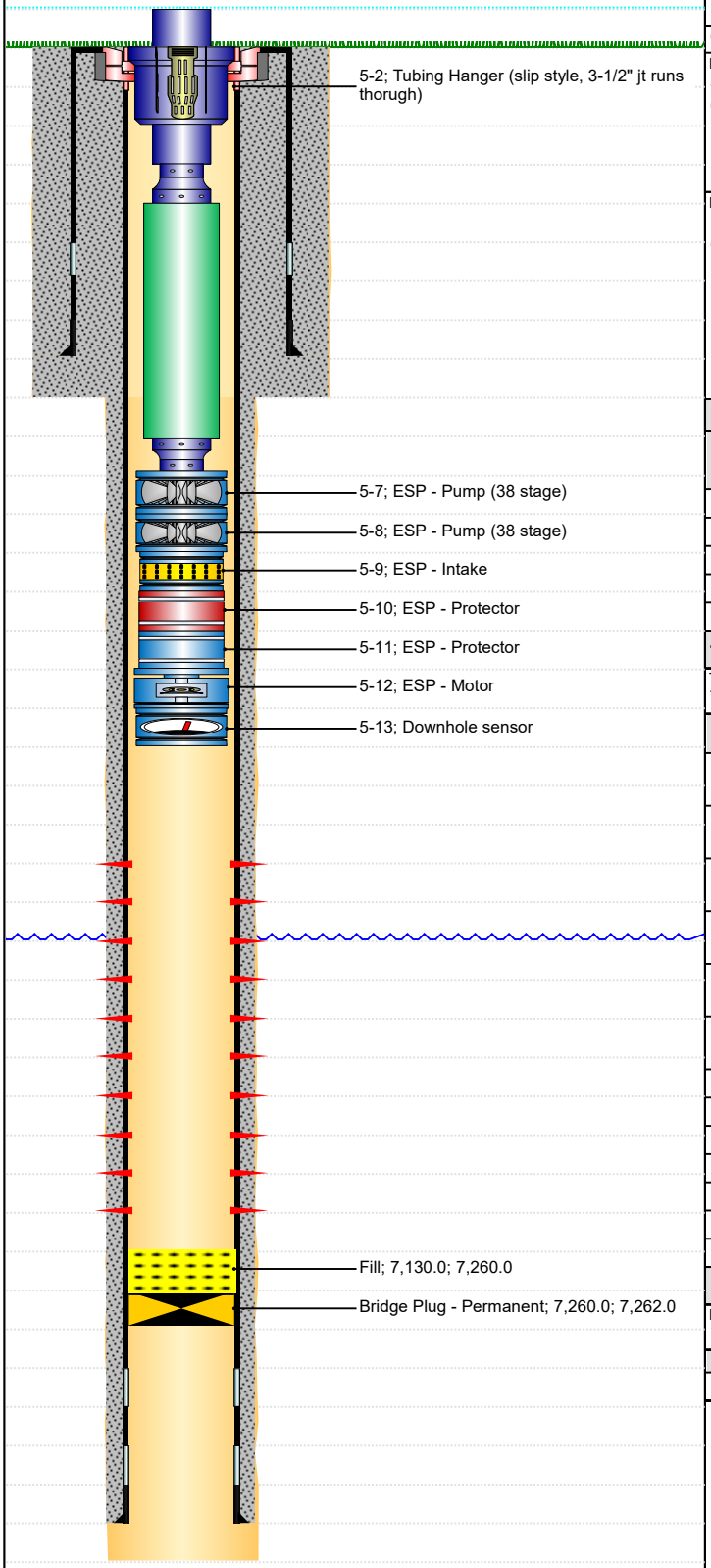
ERC - Current WBD

Well Name: W LYBROOK UNIT 2309-24N WSW

API/UWI	Surface Legal Location	Field Name	License #	State/Province	Well Configuration Type
SJ-4301 POD 3	SE/4, SW/4, Section 24, Twp 23N, Rng 0...	CHACO		NEW MEXICO	Vertical
Original KB Elevation (ft)	**KB-Tubing Head Distance (ft)**	**Spud Date**	**Rig Release Date**	**PBTD (All) (ftKB)**	**Total Depth All (TVD) (ftKB)**
6,893.00		1/3/2019 10:00	1/17/2019 12:00	Original Hole - 7,260.0	Original Hole - 7,407.0

Vertical, Original Hole, 2/24/2021 8:38:59 AM

Vertical schematic (actual)



Casing Strings

Csg Des	OD (in)	Wt/Len (lb/ft)	Grade	Top Thread	Top (ftKB)	Set Depth (ftKB)
Surface Casing	13 3/8	54.50	J-55	BTS	15.0	397.2
Production Casing	7	26.00	L-80	LT&C	15.0	7,397.8

Cement

Description	Comment
Surface Cement	Pump 20 bbls FW spacer & 92.5 bbls Type G cmt (440 sxs) @ 15.8 PPG, drop plug & disp w/ 52. bbls H2O, bump plug @ 178 psi, circ 38 bbls good cmt to surface. Check float, Shut in cement head, floats wouldn't hold. Wait 3 hrs, check float, remove cement head, secure casing.
Production Cement	Pumped 80 bbls tuned spacer @ 10.5 ppg. Pumped 184 bbls (525 sks) of lead cement at 12.3 ppg, 1.91 ft3/sk, 10.28 gal/sk H2O. Pumped 102 bbls (420 sks) of tail cement at 13.3 ppg, 1.36 ft3/sk, 6.01 gal/sk H2O. Dropped 1 top plugs. Displaced with 279 bbls freshwater (279 actual displacement at 2016 psi/7.9 BPM & pressured up to 2854 psi.) Maintained returns throughout cement job. Circulated 52 bbls of good cement to surface. Floats held, bled back 2.5 bbls, Top of Tail 3729. Cement in place @ 04:30

Perforations

Date	Top (ftKB)	Btm (ftKB)	Nom Hole Dia (in)	Shot Dens (shots/ft)	Entered Shot Total
1/27/2019	6,851.0	6,856.0	0.420	4.0	20
1/27/2019	6,895.0	6,900.0	0.420	4.0	20
1/27/2019	6,917.0	6,922.0	0.420	4.0	20
1/27/2019	6,953.0	6,958.0	0.420	4.0	20
1/27/2019	6,985.0	6,990.0	0.420	4.0	20

Tubing Strings

Tubing Description	Run Date	String Length (ft)	Set Depth (ftKB)
Tubing - Production	2/2/2021	2,273.62	2,282.6

Jts	Item Des	OD (in)	Len (ft)	Top (ftKB)	Btm (ftKB)	Grade	Wt (lb/ft)
1	Tubing (1 jt 3-1/2" at surface running through hanger)	3 1/2	6.00	9.0	15.0	J-55	9.30
1	Tubing Hanger (slip style, 3-1/2" jt runs thorugh)	6.27	1.50	15.0	16.5		
1	Tubing (1 jt 3-1/2" at surface running through hanger)	3 1/2	24.85	16.5	41.3	J-55	9.30
1	Cross Over (3-1/2" 8rd EUE x 4-1/2" LTC)	3 1/2	1.10	41.3	42.4		
50	Casing	4 1/2	2,161.07	42.4	2,203.5	P-110	11.60
1	Cross Over (4-1/2" LTC x 3-1/2" 8rd EUE)	3 1/2	1.10	2,203.5	2,204.6		
1	ESP - Pump (38 stage)	5.38	12.30	2,204.6	2,216.9		
1	ESP - Pump (38 stage)	5.38	12.30	2,216.9	2,229.2		
1	ESP - Intake	5	1.20	2,229.2	2,230.4		
1	ESP - Protector	5.13	5.80	2,230.4	2,236.2		
1	ESP - Protector	5.13	8.90	2,236.2	2,245.1		
1	ESP - Motor	5.62	35.00	2,245.1	2,280.1		
1	Downhole sensor	5.4	2.50	2,280.1	2,282.6		

Rod Strings

Rod Description	Run Date	String Length (ft)	Set Depth (ftKB)

Jts	Item Des	OD (in)	Len (ft)	Top (ftKB)	Btm (ftKB)

March 15, 2021

Mr. Jim Griswold
New Mexico Oil Conservation Division
1220 South Saint Francis Drive
Santa Fe, New Mexico 87505

Subject: Application for Authorization to Inject
SJ-4301 POD 3, WLU Unit 2309-24N WSW
San Juan County, New Mexico

Mr. Griswold:

Below is the supplemental information for Form C-108, *Application for Authorization to Inject*, for the existing water-supply well SJ-4301 POD 3 (WLU Unit 2309-24N WSW), permitted with the New Mexico Office of the State Engineer (NMOSE). Unless otherwise stated, all measured depths are referenced from the top of the kelly bushing (KB), which is 6,893 feet above mean seal level (amsl). Ground-surface elevation at this location is 6,878 feet amsl.

I. Purpose: Water disposal in the Entrada Formation

II. Operator: Enduring Resources IV, LLC
Operator Phone Number: (505) 386-8205
Operator Address: 200 Energy Court, Farmington, NM 87401
Contact: Deidre Duffy (WSP), (808) 352-0200

III. Well Data
Lease: US Bureau of Land Management (BLM), USA NMNM 036949 (NMNM02119)
Lease Size: 1,750.63 Acres
Lease Area: Sec24, Sec25, Sec26, and Sec35 of T23N / R9W
Closest Lease Line: SE/SW OF Sec24, T23N / R9W
Well Name & Number: WLU Unit 2309-24N WSW (SJ-4301 POD3)
Well Location: 294’ FSL and 2284’ FWL, Unit N, Section 24, Township 23N, Range 9 West
A survey plat of the pad is attached as Enclosure A

Surface Casing: 13 3/8” outer diameter, 54.5#, J-55 Steel, set to 397.2 feet. Pump 20 barrels (bbls) FW spacer & 92.5 bbls Type G cmt (440 sxs) @ 15.8 PPG, drop plug & disp w/ 52. bbls H2O, bump plug @ 178 psi, circ 38 bbls good cmt to surface. Check float, Shut in cement head, floats wouldn't hold. Wait 3 hrs, check float, remove cement head, secure casing.

Production Casing: 7” outer diameter, 26#, L-80 Steel, set to 7,397 feet, plug back total depth 7,260 feet. Pumped 80 bbls tuned spacer @ 10.5 ppg. Pumped 184 bbls (525 sks) of lead cement at 12.3 ppg, 1.91 ft3/sk, 10.28 gal/sk H2O. Pumped 102 bbls (420 sks) of tail cement at 13.3 ppg, 1.36 ft3/sk, 6.01 gal/sk H2O. Dropped 1 top plugs. Displaced with 279 bbls freshwater (279 actual displacement at 2016 psi/7.9 BPM & pressured up to 2854 psi.) Maintained returns throughout cement job. Circulated 52 bbls of good cement to surface. Floats held, bled back 2.5 bbls, Top of Tail 3729.

Tubing: 4.5” corrosion resistant tubing.

Dual grip packer coated with corrosion resistant material set at 6,803’.

WSP USA
848 EAST 2ND AVENUE
DURANGO CO 81301

Tel.: 970-385-1096
wsp.com

Disposal zone will be the Entrada sandstone in the SWD; Entrada (96436) pool. Entrada is described as a fine to very fine-grained sandstone with fair to good porosity and permeability.

Disposal interval is 6,851' to 6,990'.

The well was originally drilled as a diversion for water.

Well bore is perforated at 6,851' to 6,990'.

Top of the Entrada is at 6,250 feet. Bottom of the closest overlying productive formation (Dakota) is at 5,375 feet. There will be 1,476 feet between the highest perforation and the bottom of the Dakota. A well bore diagram is included as Enclosure B.

IV. This is not an expansion of an existing injection project.

V. Enclosure C depicts all wells (active and plugged) and leases within two miles. A half-mile radius area of review is also depicted on the figure.

VI. There are no active wells within the area of review. Enduring Resources IV, LLC is the only oil and gas lease holders within the area of review (Enclosure D).

VII. 1. Injection Rate: 20,000 barrels of water injected per day (BWIPD) maximum, 8,000 BWIPD average

2. System will be closed

3. Injection pressure: 2,000 pounds per square inch gauge (psig) maximum, 1,200 psig average.

4. Injection Fluid will be from present and future Enduring Resources, LLC wells in the San Juan Basin. Water analysis attached (Enclosure E).

5. The Entrada has not been proven productive within the area of review. In general, Entrada water near recharge zones (basin fringe) has a specific conductance of < 1,500 micro ohms (µmhos). Stone et all in *Hydrology and Water Resources of San Juan Basin, New Mexico* wrote, "Generally, however, water from the Entrada is not suitable for drinking, especially in deeper parts of the basin." Water samples from the well are attached as Enclosure F.

VIII. The Entrada sandstone is a very porous and permeable aeolian sandstone. It has produced oil elsewhere in the San Juan Basin (e.g. Eagle Mesa, Leggs, Media, Ojo Encino, Paper Wash, Snake Eyes Field). The closest producing water well (SJ-01710) is located approximately 0.77 miles from SJ-4301 POD3, with depth to water of approximately 173 feet below ground surface. No existing underground drinking water sources are below the Entrada within a 2-mile radius. Enclosure G includes state engineer water well record.

IX. There is no proposed stimulation.

X. A triple combo log is attached as Enclosure H.

XI. There are no freshwater wells within 1-mile of SJ-4301 POD3.

XII. Enduring Resources, LLC is not aware of any geologic or engineering data that may indicate the Entrada is in hydrologic connection with any underground sources of water. There is a greater than 5,000 feet vertical separation and multiple shale zones between the top of the Entrada and the bottom of known existing water wells in the area. Closest Quaternary fault zone is miles to the east in the Rio Grande Valley. There are many injection and disposal wells active in the Entrada formation in New Mexico.

XIII. Enclosure I provides proof of notification for this application. Because the applicant is the only well owner/lease holder within the area of review, notification of this application was given to the BLM via certified mail. In addition, the proof of publication is provided in Enclosure I. Notice of this

application was published in the *Farmington Daily Time*, a newspaper of general circulation in San Juan County, New Mexico, as well as surrounding counties.

The following statement was advertised in the *Farmington Daily Times* on March 3, 2021*:*

> Ms. Deidre Duffy, a representative of Enduring Resources IV, LLC, 200 Energy Court, Farmington, New Mexico 87401 (970-385-1096), wishes to provide notification for the submittal of an *Application for Authorization to Inject* to the New Mexico Oil Conservation Division (NMOCD). The application requests the use of existing diversion well SJ-4301 POD3 (WLU 2309-24N WSW), permitted with the New Mexico Office of the State Engineer (NMOSE), for the use as a Class II injection well. The well is located in San Juan County, New Mexico at latitude 36.205958°N, longitude 107.740891°W. This well will be used to inject fluids produced from the enhanced recovery of oil and/or natural gas in the San Juan Basin. Fluids will be injected into the Entrada Geologic Formation at depths between 6,851 feet and 6,990 feet below ground surface. Maximum injection rates and pressures are anticipated to be 20,000 barrels of water per day and 2,000 pounds per square inch gauge, respectively. Interested parties may contact the Oil Conservation Division, 1220 South Saint Francis Drive, Santa Fe, New Mexico 87505, within 15 days.

Kind regards,

Deidre Duffy
Senior Ecologist

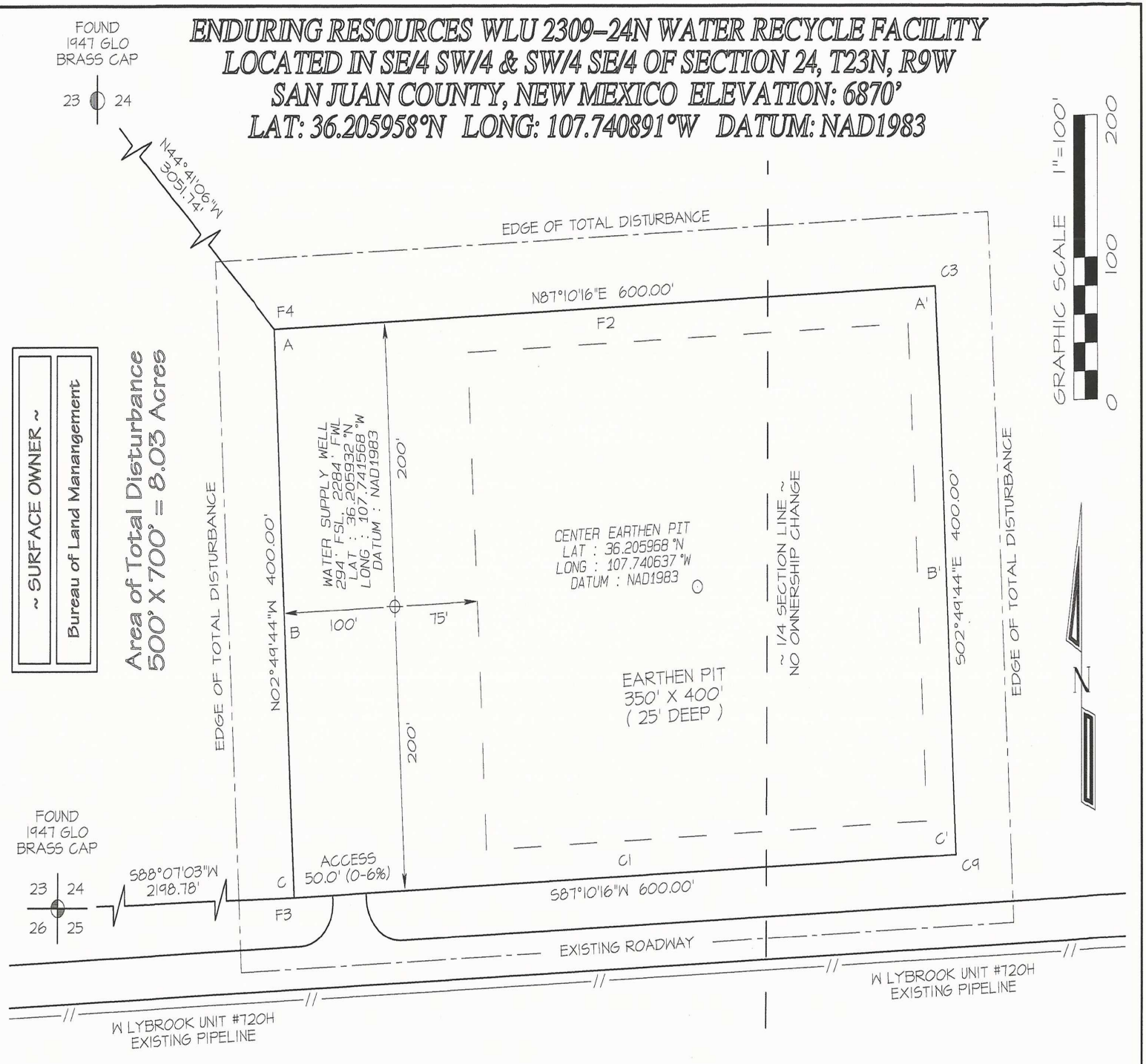
Stuart Hyde, L.G.
Environmental Geologist

ENCLOSURES

Enclosure A: Survey Plat
Enclosure B: Wellbore Diagram
Enclosure C: Well Location Figure
Enclosure D: List of Active Wells
Enclosure E: Sample Injection Fluid Analytical Reports
Enclosure F: Sample Entrada Formation Groundwater Analytical Results
Enclosure G: NMOSE Point of Diversions
Enclosure H: Triple Combo Log
Enclosure I: Proof of Notification

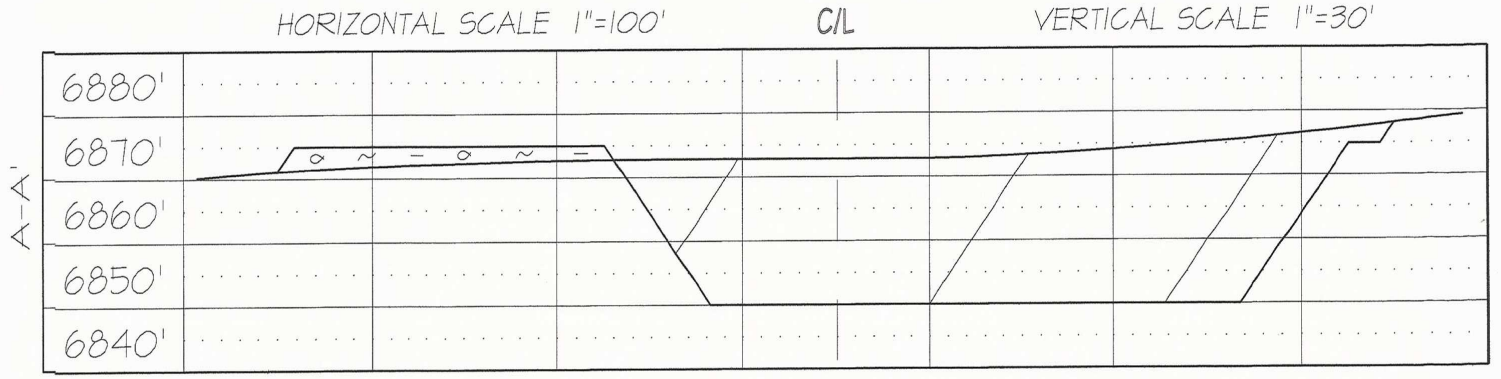
ENCLOSURE A: SURVEY PLAT

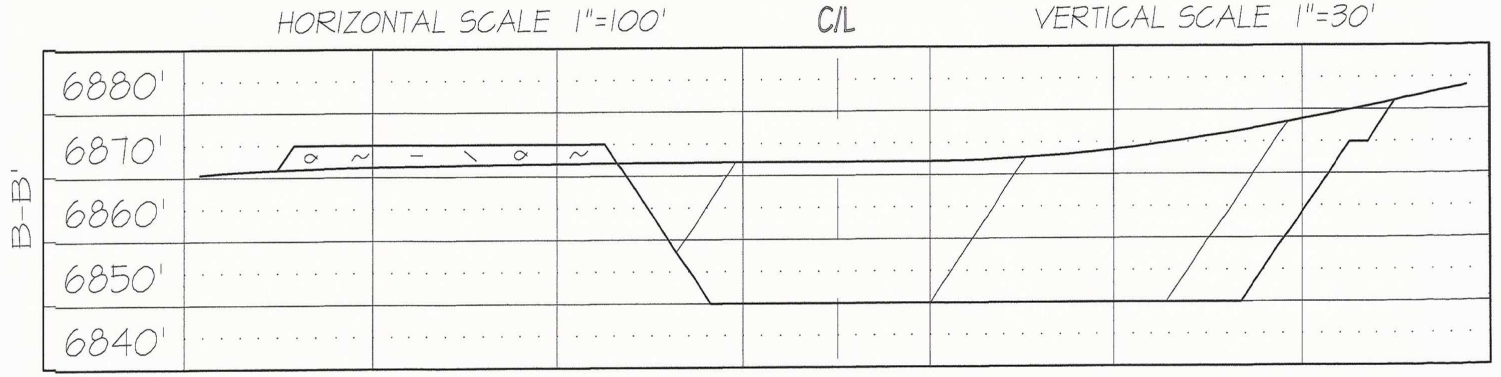
ENDURING RESOURCES WLU 2309-24N WATER RECYCLE FACILITY
LOCATED IN SE/4 SW/4 & SW/4 SE/4 OF SECTION 24, T23N, R9W
SAN JUAN COUNTY, NEW MEXICO ELEVATION: 6870'
LAT: 36.205958°N LONG: 107.740891°W DATUM: NAD1983

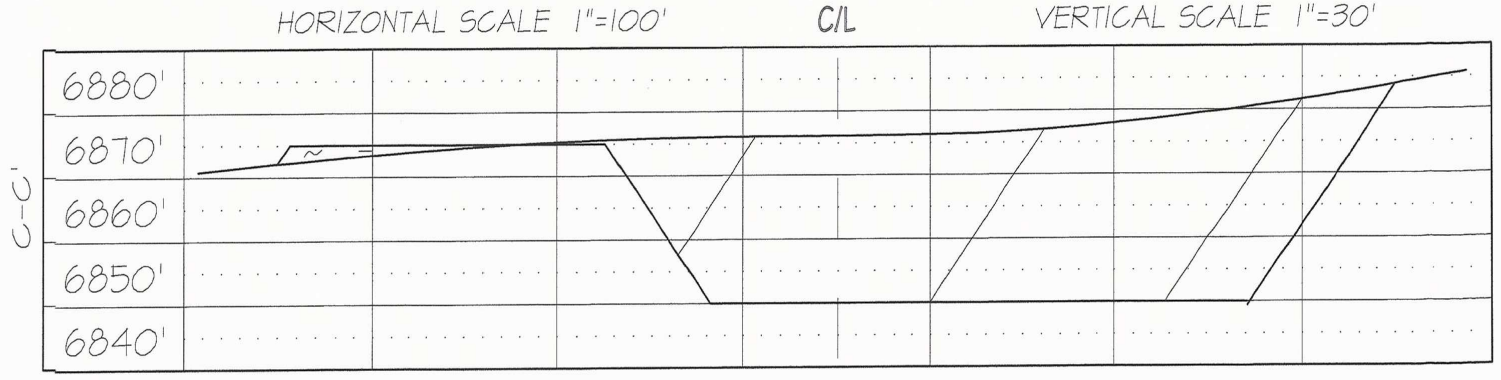


Steel T-Posts have been set to define Edge of Disturbance limits which are 50' offset from the edge of water recycle facility.

ENDURING RESOURCES WLU 2309–24N WATER RECYCLE FACILITY
LOCATED IN SE/4 SW/4 & SW/4 SE/4 OF SECTION 24, T23N, R9W
SAN JUAN COUNTY, NEW MEXICO ELEVATION: 6870'



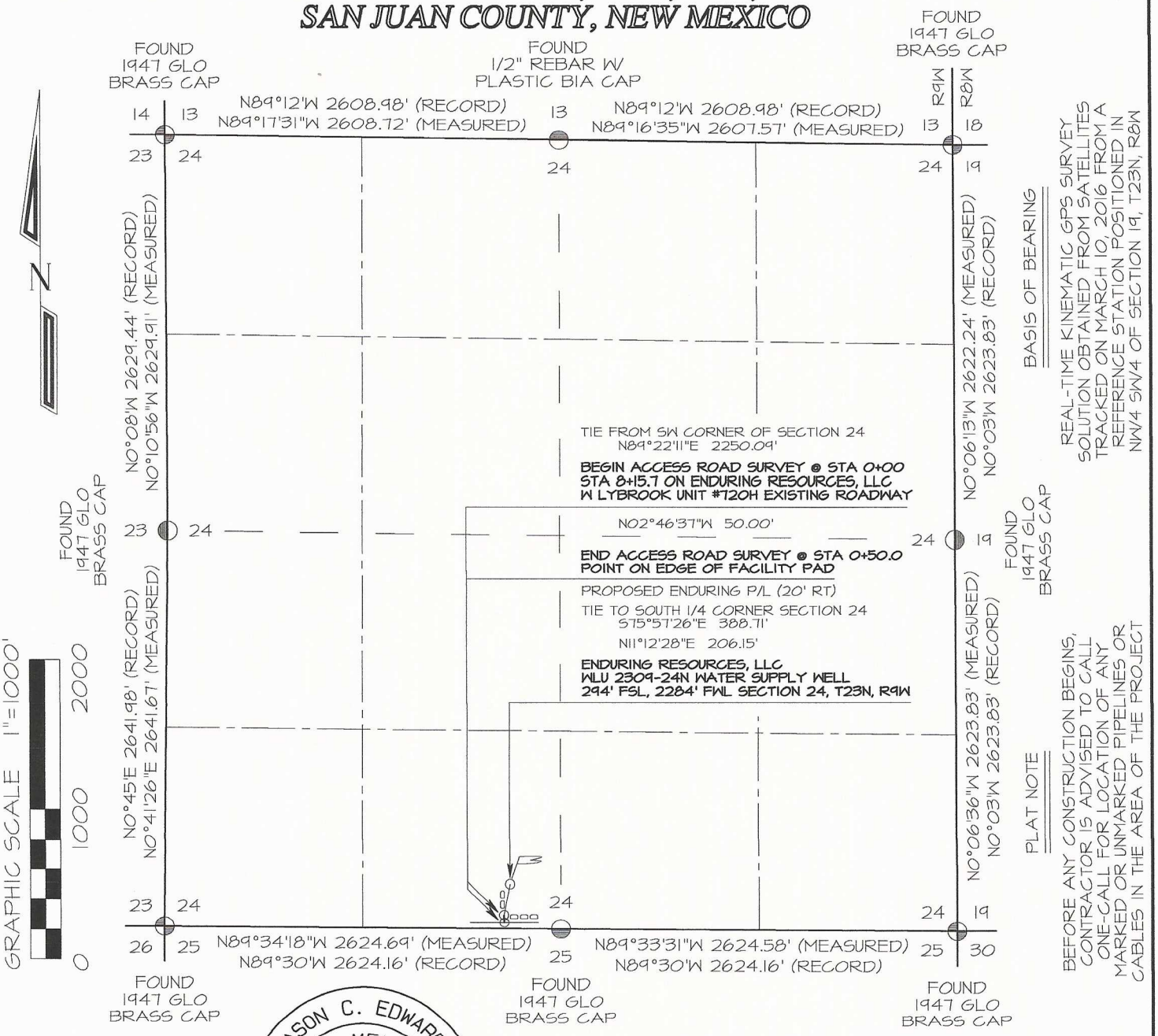




EDWARDS SURVEYING, INC. IS NOT LIABLE FOR LOCATION OF UNDERGROUND UTILITIES OR PIPELINES.

CONTRACTOR SHOULD CONTACT ONE-CALL FOR LOCATION OF ANY MARKED OR UNMARKED UNDERGROUND UTILITIES OR PIPELINES ON WELLPAD AND/OR ACCESS ROAD AT LEAST TWO WORKING DAYS PRIOR TO CONSTRUCTION.

ENDURING RESOURCES WLU 2309-24N WATER RECYCLE FACILITY
PROPOSED ACCESS ROAD SURVEY LOCATED IN THE SE/4 SW/4 SECTION 24, T23N, R9W, NMPM SAN JUAN COUNTY, NEW MEXICO



~ SURFACE OWNERSHIP ~ Bureau of Land Management	
0+00 TO 0+50.0	50.0 FT / 3.0 RODS

JASON C. EDWARDS
NEW MEXICO
15269
REGISTERED PROFESSIONAL SURVEYOR

I, Jason C. Edwards, a registered Professional Surveyor under the laws of the State of New Mexico, hereby certify that this plat was prepared from field notes of an actual survey meeting the minimum requirements of the standards for easement surveys and is true and correct to the best of my knowledge and belief.

JASON C. EDWARDS Date: June 6, 2018

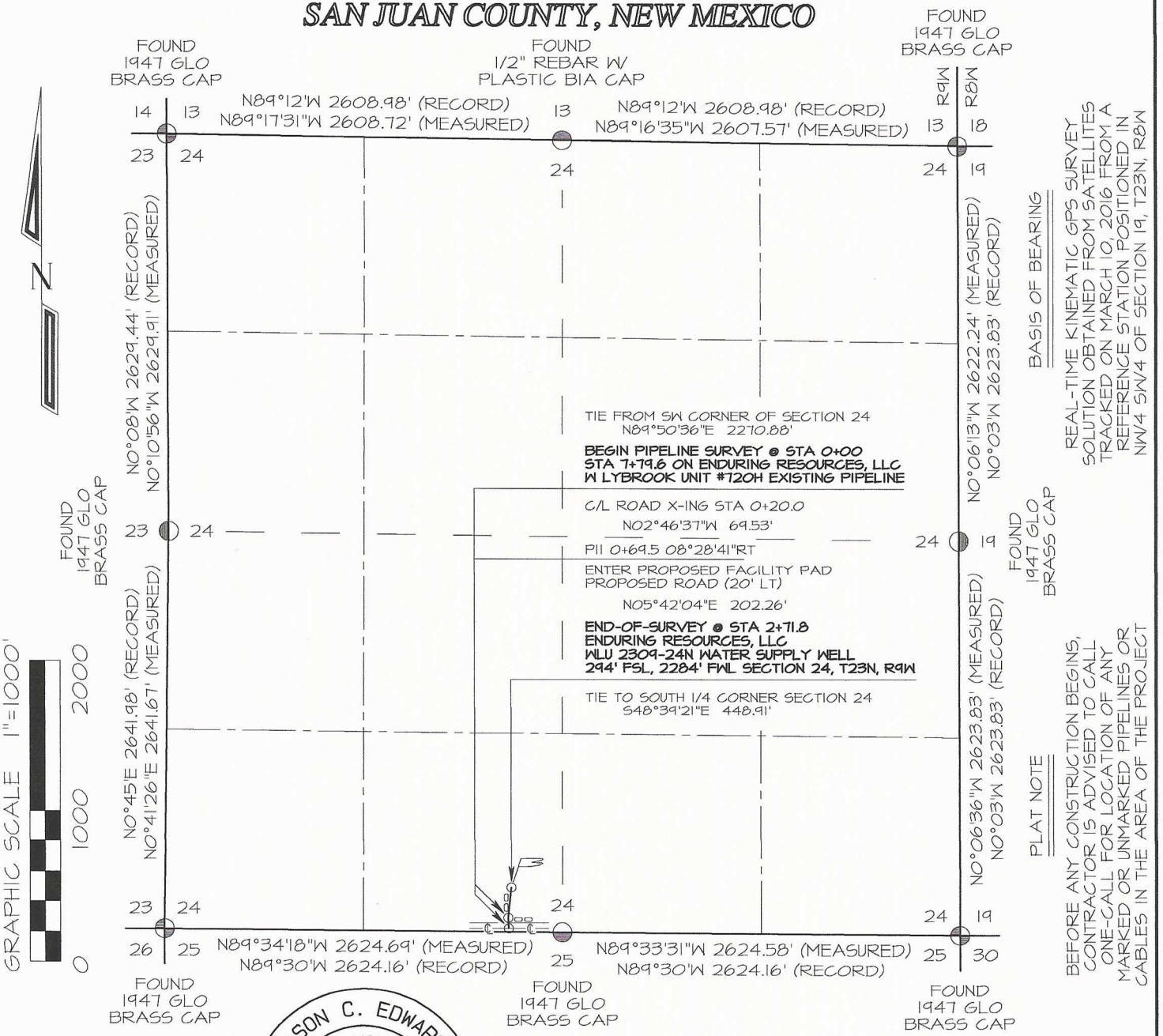
Jason C. Edwards, P.L.S.
New Mexico L.S. #15269

Prepared for:
ENDURING RESOURCES, LLC
332 ROAD 3100
AZTEC, NM 87410

Land Surveyor:
Jason C. Edwards
Mailing Address:
Post Office Box 6612
Farmington, NM 87499
Business Address:
111 East Pinon Street
Farmington, NM 87402
(505) 486-1695 (Office)
ncesurveys@comcast.net
NCE SURVEYS, INC.

SHEET 3 OF 6 | CHECKED BY: JCE
FILENAME: 23424AP | DRAWN BY: EDO

ENDURING RESOURCES WLU 2309-24N WATER RECYCLE FACILITY
PROPOSED PIPELINE SURVEY LOCATED IN THE
SE/4 SW/4 SECTION 24, T23N, R9W, NMPM
SAN JUAN COUNTY, NEW MEXICO



BASIS OF BEARING

REAL-TIME KINEMATIC GPS SURVEY SOLUTION OBTAINED FROM SATELLITES TRACKED ON MARCH 10, 2016 FROM A REFERENCE STATION POSITIONED IN NW/4 SW/4 OF SECTION 19, T23N, R8W

PLAT NOTE

BEFORE ANY CONSTRUCTION BEGINS, CONTRACTOR IS ADVISED TO CALL ONE-CALL FOR LOCATION OF ANY MARKED OR UNMARKED PIPELINES OR CABLES IN THE AREA OF THE PROJECT

~ SURFACE OWNERSHIP ~ Bureau of Land Management	
0+00 TO 2+71.8	271.8 FT / 16.5 RODS

JASON C. EDWARDS
NEW MEXICO
15269
REGISTERED PROFESSIONAL SURVEYOR

I, Jason C. Edwards, a registered Professional Surveyor under the laws of the State of New Mexico, hereby certify that this plat was prepared from field notes of an actual survey meeting the minimum requirements of the standards for easement surveys and is true and correct to the best of my knowledge and belief.

JASON C. EDWARDS Date: June 6, 2018

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Land Surveyor:
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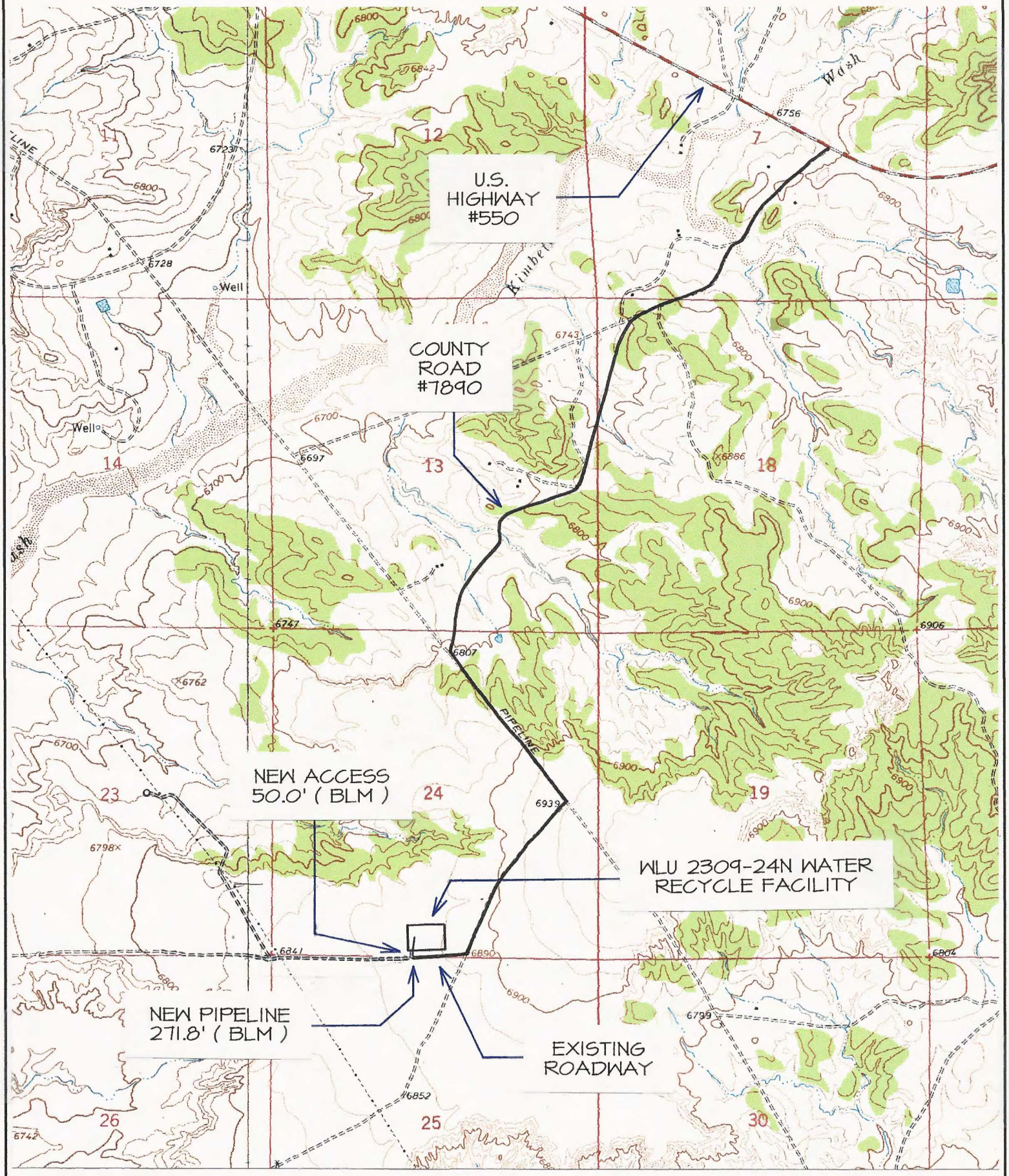
(505) 486-1695 (Office)
ncesurveys@comcast.net
NCE SURVEYS, INC.

SHEET 4 OF 6 | CHECKED BY: JCE
FILENAME: 2392461 | DRAWN BY: EDO

ENDURING RESOURCES, LLC WLU 2309-24N WATER RECYCLE FACILITY

LOCATED IN SE/4 SW/4 & SW/4 SE/4 SECTION 24, T23N, R9W
N.M.P.M., SAN JUAN COUNTY, NEW MEXICO



TOPO NAMES : KIMBETO & LYBROOK NW ⊕ PRODUCING WELL ⊗ PLUGGED & ABANDONED WELL

Directions from the Intersection of US Hwy 550 & US Hwy 64

in Bloomfield, NM to Enduring Resources, LLC WLU 2309-24N Water Recycle Facility

294' FSL & 2284' FWL, Section 24, T23N, R9W, N.M.P.M., San Juan County, NM

Latitude: 36.205932°N Longitude: 107.741568°W Datum: NAD1983

From the intersection of US Hwy 550 & US Hwy 64 in Bloomfield, NM, travel Southerly on US Hwy 550 for 37.8 miles to Mile Marker 113.4;

Go Right (South-westerly) on County Road #7890 for 0.8 miles to fork in roadway;

Go Left (Southerly) remaining on County Road #7890 for 1.3 miles to 4-way intersection;

Go Left (South-easterly) remaining on County Road #7890 for 0.6 miles to fork in roadway;

Go Right (South-westerly) remaining on County Road #7890 for 0.5 miles to fork in roadway;

Go Right (Westerly) exiting County Road #7890 for 0.2 miles to begin access on right-hand side of existing roadway which continues for 50.0' to staked Enduring WLU 2309-24N Water Recycle Facility location.

ENCLOSURE B: WELLBORE DIAGRAM

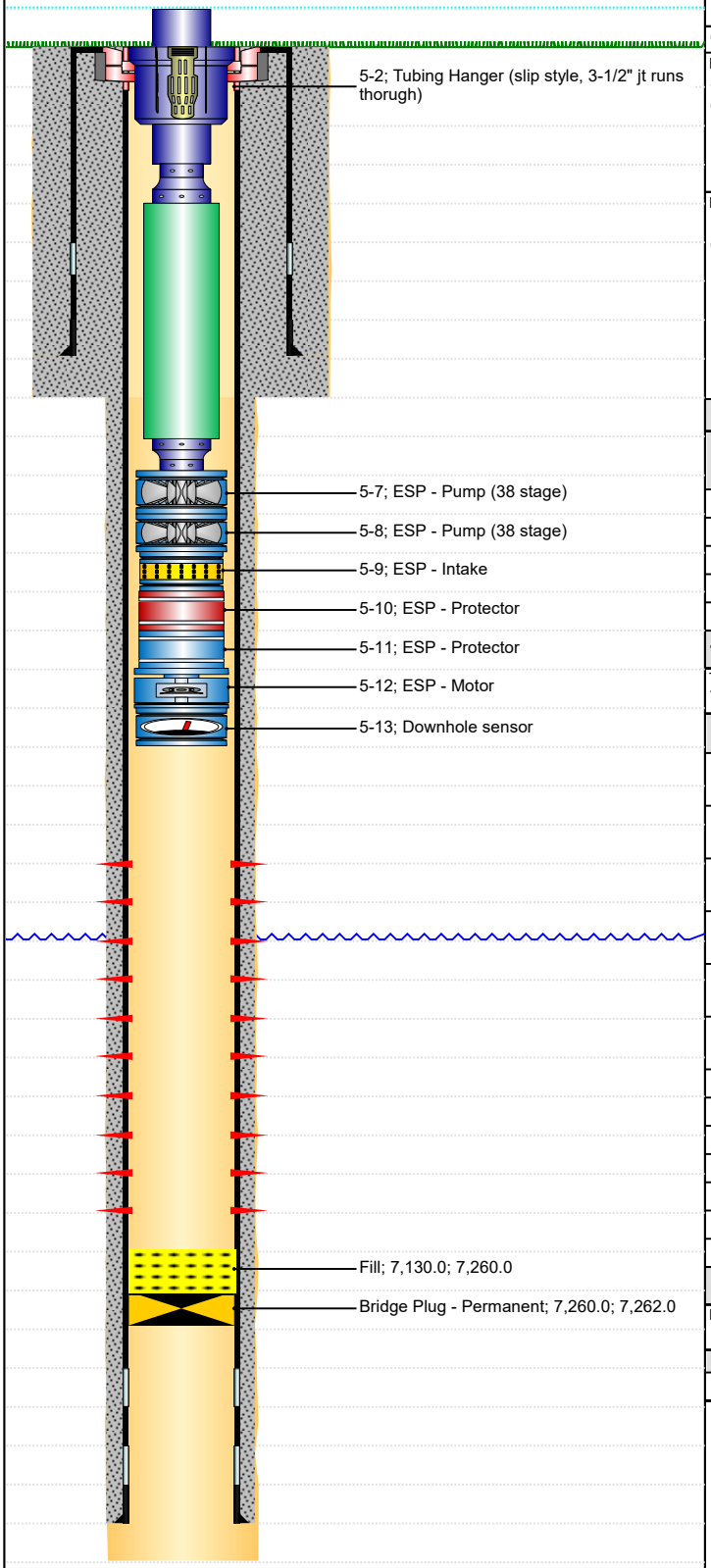
ERC - Current WBD

Well Name: W LYBROOK UNIT 2309-24N WSW

API/UWI	Surface Legal Location	Field Name	License #	State/Province	Well Configuration Type
SJ-4301 POD 3	SE/4, SW/4, Section 24, Twp 23N, Rng 0...	CHACO		NEW MEXICO	Vertical
Original KB Elevation (ft)	**KB-Tubing Head Distance (ft)**	**Spud Date**	**Rig Release Date**	**PBTD (All) (ftKB)**	**Total Depth All (TVD) (ftKB)**
6,893.00		1/3/2019 10:00	1/17/2019 12:00	Original Hole - 7,260.0	Original Hole - 7,407.0

Vertical, Original Hole, 2/24/2021 8:38:59 AM

Vertical schematic (actual)



Casing Strings

Csg Des	OD (in)	Wt/Len (lb/ft)	Grade	Top Thread	Top (ftKB)	Set Depth (ftKB)
Surface Casing	13 3/8	54.50	J-55	BTS	15.0	397.2
Production Casing	7	26.00	L-80	LT&C	15.0	7,397.8

Cement

Description	Comment
Surface Cement	Pump 20 bbls FW spacer & 92.5 bbls Type G cmt (440 sxs) @ 15.8 PPG, drop plug & disp w/ 52. bbls H2O, bump plug @ 178 psi, circ 38 bbls good cmt to surface. Check float, Shut in cement head, floats wouldn't hold. Wait 3 hrs, check float, remove cement head, secure casing.
Production Cement	Pumped 80 bbls tuned spacer @ 10.5 ppg. Pumped 184 bbls (525 sks) of lead cement at 12.3 ppg, 1.91 ft3/sk, 10.28 gal/sk H2O. Pumped 102 bbls (420 sks) of tail cement at 13.3 ppg, 1.36 ft3/sk, 6.01 gal/sk H2O. Dropped 1 top plugs. Displaced with 279 bbls freshwater (279 actual displacement at 2016 psi/7.9 BPM & pressured up to 2854 psi.) Maintained returns throughout cement job. Circulated 52 bbls of good cement to surface. Floats held, bled back 2.5 bbls, Top of Tail 3729. Cement in place @ 04:30

Perforations

Date	Top (ftKB)	Btm (ftKB)	Nom Hole Dia (in)	Shot Dens (shots/ft)	Entered Shot Total
1/27/2019	6,851.0	6,856.0	0.420	4.0	20
1/27/2019	6,895.0	6,900.0	0.420	4.0	20
1/27/2019	6,917.0	6,922.0	0.420	4.0	20
1/27/2019	6,953.0	6,958.0	0.420	4.0	20
1/27/2019	6,985.0	6,990.0	0.420	4.0	20

Tubing Strings

Tubing Description	Run Date	String Length (ft)	Set Depth (ftKB)
Tubing - Production	2/2/2021	2,273.62	2,282.6

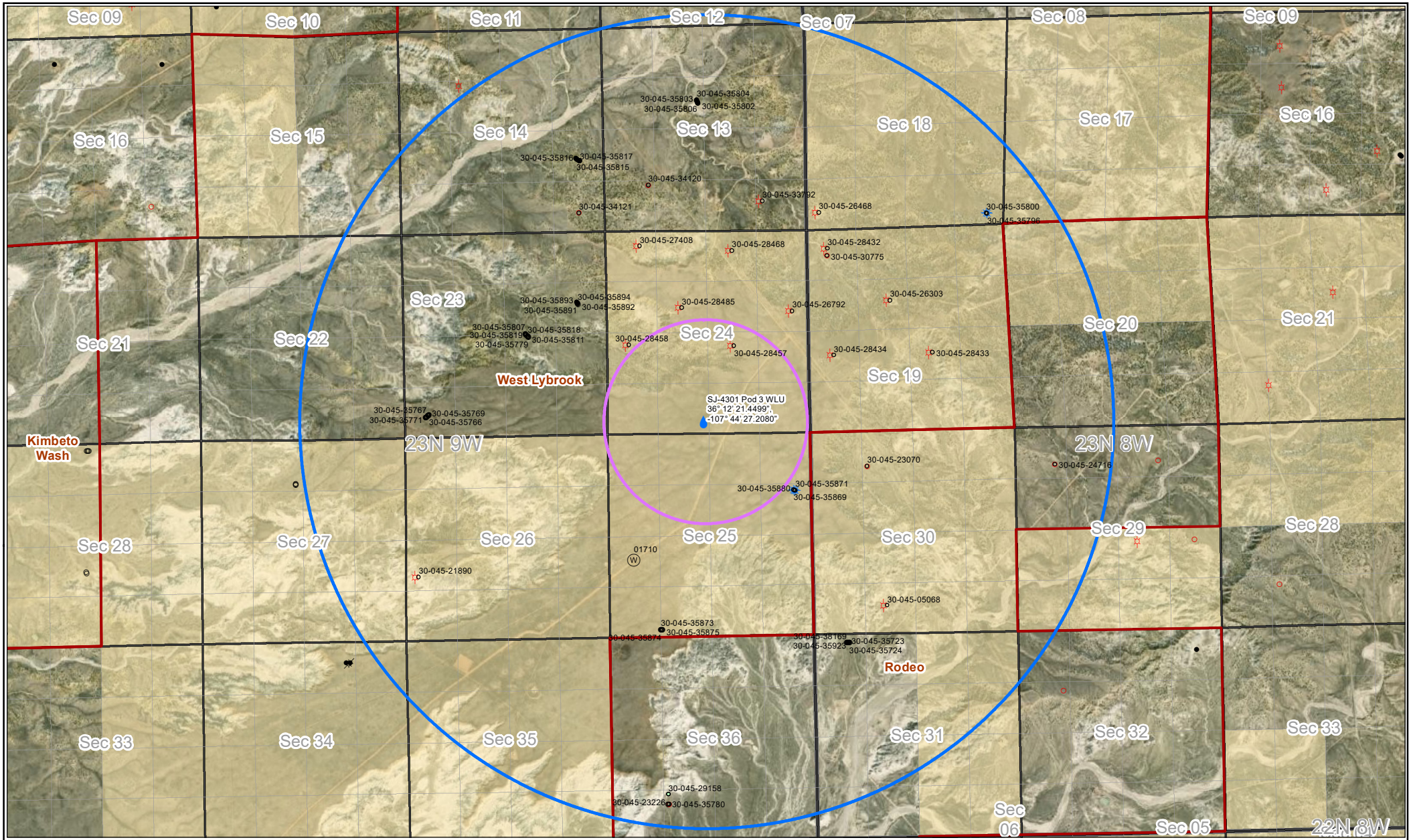
Jts	Item Des	OD (in)	Len (ft)	Top (ftKB)	Btm (ftKB)	Grade	Wt (lb/ft)
1	Tubing (1 jt 3-1/2" at surface running through hanger)	3 1/2	6.00	9.0	15.0	J-55	9.30
1	Tubing Hanger (slip style, 3-1/2" jt runs thorugh)	6.27	1.50	15.0	16.5		
1	Tubing (1 jt 3-1/2" at surface running through hanger)	3 1/2	24.85	16.5	41.3	J-55	9.30
1	Cross Over (3-1/2" 8rd EUE x 4-1/2" LTC)	3 1/2	1.10	41.3	42.4		
50	Casing	4 1/2	2,161.07	42.4	2,203.5	P-110	11.60
1	Cross Over (4-1/2" LTC x 3-1/2" 8rd EUE)	3 1/2	1.10	2,203.5	2,204.6		
1	ESP - Pump (38 stage)	5.38	12.30	2,204.6	2,216.9		
1	ESP - Pump (38 stage)	5.38	12.30	2,216.9	2,229.2		
1	ESP - Intake	5	1.20	2,229.2	2,230.4		
1	ESP - Protector	5.13	5.80	2,230.4	2,236.2		
1	ESP - Protector	5.13	8.90	2,236.2	2,245.1		
1	ESP - Motor	5.62	35.00	2,245.1	2,280.1		
1	Downhole sensor	5.4	2.50	2,280.1	2,282.6		

Rod Strings

Rod Description	Run Date	String Length (ft)	Set Depth (ftKB)

Jts	Item Des	OD (in)	Len (ft)	Top (ftKB)	Btm (ftKB)

ENCLOSURE C: WELL LOCATION FIGURE



SJ-4301 POD 3 Map

Active Wells

- Gas
- Oil

Inactive Wells

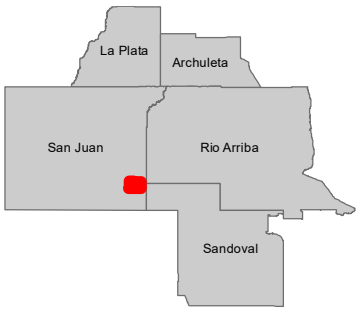
- Cancelled
- New
- Plugged (site released)
- Temporary Abandonment
- Temporary Abandonment (expired)
- SJ-4301 POD 3 WLU
- NMOSE Water
- WLU 1/2 Mile Buffer
- WLU 2 Mile Buffer
- Unit Boundary
- PLSS_QtrQtr_SJB
- Section
- Township

Federal Minerals Ownership

- All Minerals

Miles

0 0.5 1 2



ENDURING RESOURCES, LLC

Data Source Statement:
BLM-FFO, Enduring Resources GIS, ESRI Inc., NCE Surveys, USGS

Author: drogers

Date: 2/24/2021

ENCLOSURE D: LIST OF ACTIVE WELLS

Enclosure D

Form C-108
WLU 2309-24N (SJ-4301 POD 3)
San Juan County, New Mexico

API/Lease Number	Operator	Well	Unit Section T23N R9W	True Vertical Depth	Pool	Status
BLM Lease NMNM 057164	Enduring Resources IV, LLC	N/A	N/A	N/A	N/A	N/A
BLM Lease NMNM 036949	Enduring Resources IV, LLC	N/A	N/A	N/A	N/A	N/A

ENCLOSURE E: SAMPLE INJECTION FLUID ANALYTICAL REPORTS

Enduring Resources

SEU 359 Pad

Water Analysis

Test:		North Escavada Pond
Temperature	(deg F)	64.5
Specific Gravity		1.029
pH		8.45
Sodium Na+	(mg/L)	13915
Magnesium Mg 2+	(mg/L)	80
Iron Fe2+	(mg/L)	<LOD
Total Iron Fe2+ & Fe3+	(mg/L)	6
Calcium Ca 2+	(mg/L)	394
Total Hardness as CaCO3	(mg/L)	1312
Chlorides CL-	(mg/L)	20945
Hydroxide OH-	(mg/L)	<LOD
Carbonate CO3(2-)	(mg/L)	96
Bicarbonates HCO3-	(mg/L)	708
Phosphates PO4(3-)	(mg/L)	6
Sulfates SO4(2-)	(mg/L)	1250
ORP	mV	10
TDS	(mg/L)	37400

*** <LOD indicates a result less than limit of detection.

HALLIBURTON

Water Analysis Report

30-045-33217
F-11-24n-11w

To:	Dugan Production	**Date:**	11/10/2005
Submitted by:	Halliburton Energy Services	**Date Rec:**	11/10/2005
Attention:	Darrin Steed	**Report #:**	FLMM5A44
Well Name:	Herry Monster #3 SWD	**Formation:**	Entrada/SWD

Specific Gravity	1.005	
pH	8.4	
Resistivity	0.89	@ 70° F
Iron (Fe)	0	Mg / L
Potassium (K)	200	Mg / L
Sodium (Na)	4165	Mg / L
Calcium (Ca)	176	Mg / L
Magnesium (Mg)	15	Mg / L
Chlorides (Cl)	2200	Mg / L
Sulfates (SO4)	2000	Mg / L
Carbonates (CO3)	40	Mg / L
Bicarbonates (HCO3)	5612	Mg / L
Total Dissolved Solids	14408	Mg / L

Respectfully: Bill Loughridge

Title: Senior Scientist

Location: Farmington, NM

EXHIBIT F

ENCLOSURE F: SAMPLE ENTRADA FORMATION GROUNDWATER ANALYTICAL RESULTS

Hall Environmental Analysis Laboratory, Inc.

CLIENT: John Shomaker & Assoc.
Client Sample ID: First Formation
Project: Enduring Resources
Collection Date: 10/9/2018 11:52:00 AM
Lab ID: 1810596-002 **Matrix:** AQUEOUS **Received Date:** 10/10/2018 12:40:00 PM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **MRA**	
Fluoride	5.8	0.50	*	mg/L	5	10/10/2018 7:26:00 PM	R54788
Chloride	1400	100	*	mg/L	200	10/12/2018 3:31:22 AM	R54823
Nitrogen, Nitrite (As N)	ND	0.50		mg/L	5	10/10/2018 7:26:00 PM	R54788
Bromide	1.5	0.50		mg/L	5	10/10/2018 7:26:00 PM	R54788
Nitrogen, Nitrate (As N)	ND	0.50		mg/L	5	10/10/2018 7:26:00 PM	R54788
Phosphorus, Orthophosphate (As P)	ND	10		mg/L	20	10/10/2018 7:38:25 PM	R54788
Sulfate	6100	100	*	mg/L	200	10/12/2018 3:31:22 AM	R54823
SM2510B: SPECIFIC CONDUCTANCE						Analyst: **MRA**	
Conductivity	13000	10		µmhos/c	2	10/15/2018 3:53:19 PM	R54896
SM2540C MOD: TOTAL DISSOLVED SOLIDS						Analyst: **KS**	
Total Dissolved Solids	10200	200	*D	mg/L	1	10/15/2018 4:39:00 PM	40981
SM4500-H+B / 9040C: PH						Analyst: **MRA**	
pH	7.93		H	pH units	1	10/11/2018 3:01:50 PM	R54833
EPA METHOD 200.7: METALS						Analyst: **JLF**	
Calcium	1100	100		mg/L	100	10/16/2018 7:07:08 PM	40970
Magnesium	72	10		mg/L	10	10/16/2018 7:03:08 PM	40970
Potassium	320	10		mg/L	10	10/16/2018 7:03:08 PM	40970
Sodium	3300	100		mg/L	100	10/16/2018 7:07:08 PM	40970

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Detection Limit
S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

ENCLOSURE G: NMOSE POINT OF DIVERSIONS

New Mexico Office of the State Engineer
Water Column/Average Depth to Water

(A CLW##### in the POD suffix indicates the POD has been replaced & no longer serves a water right file.)

(R=POD has been replaced, O=orphaned, C=the file is closed)

(quarters are 1=NW 2=NE 3=SW 4=SE)
(quarters are smallest to largest) (NAD83 UTM in meters) (In feet)

POD Number	POD Sub-basin	County	Q 64	Q 16	Q 4	Sec	Tws	Rng	X	Y	Distance	Depth Well	Depth Water	Water Column
SJ 01710	SJ	SJ		1	3	25	23N	09W	252985	4009203*	1239	550	173	377
SJ 00001	SJ	SJ		4	1	12	23N	09W	253534	4014427*	4150	695	630	65
SJ 01709	SJ	SJ		1	1	27	23N	08W	259451	4009831*	5865	317	225	92
SJ 01706	SJ	SJ		3	4	12	22N	09W	253627	4003944*	6333	762	362	400
SJ 03978 POD1	SJ	SJ	1	2	1	22	23N	08W	259816	4011541	6341	500	260	240
SJ 02686	SJ	SJ	3	4	2	32	24N	08W	257502	4017472*	8183	690	690	0
SJ 04195 POD1	SJ	SJ		1	3	11	23N	08W	261123	4013544	8200	700	290	410
SJ 01712	SJ	SJ		2	4	27	24N	09W	251195	4018933*	8983	528	515	13
SJ 00144	SJ	SJ	1	1	3	31	23N	09W	244786	4007922*	9125	100		

Average Depth to Water: **393 feet**

Minimum Depth: **173 feet**

Maximum Depth: **690 feet**

Record Count: 9

UTMNAD83 Radius Search (in meters):

Easting (X): 253602 **Northing (Y):** 4010277.51 **Radius:** 10000

***UTM location was derived from PLSS - see Help**

ENCLOSURE H: TRIPLE COMBO LOG

ALLIED HORIZONTAL WIRELINE SERVICES

Composite Log

Company Enduring Resources
Well West Lybrook unit 2309-24N WSW
Field West Lybrook
County San Juan
State New Mexico

Location: Section 24, Township 23N, Range 09W
API # : SJ-4301 POD 3

Other Services: IAT / SGR / MEL

Elevation
K.B. 6887.5 ' ft.
D.F. 6886.5 ' ft.
G.L. 6870 ' ft.

Permanent Datum Ground Level Elevation 6870 ' ft.
Log Measured From KB , 17 ft. above perm. datum
Drilling Measured From Kelly Bushing

Date	01/15/2019		
Run Number	One		
Depth Driller	7408 '		
Depth Logger	7403 '		
Bottom Logged Interval	7392 '		
Top Log Interval	406 '		
Casing Driller	13.375 " @ 406 '	@	
Casing Logger	402 '		
Bit Size	8.750 "	@	
Type Fluid in Hole	Brine		
Density / Viscosity	9.4 / 39		
pH / Fluid Loss	7 / 36		
Source of Sample	Mud Tank		
Rm @ Meas. Temp	.188 @ 75 °F	@	
Rmf @ Meas. Temp	.141 @ 75 °F	@	
Rmc @ Meas. Temp	.235 @ 75 °F	@	
Source of Rmf / Rmc	Calculated		
Rm @ BHT	.097 @ 152 °F	@	
Time Circulation Stopped	01/15/2019 @ 02:00		
Time Logger on Bottom	01/15/2019 @ 10:00		
Maximum Recorded Temperature	159 °F		
Equipment Number	11007		
Location	Midland		
Recorded By	J. Trasti / A.DeLaGarza		
Witnessed By	A. Bridge		

<<< Fold Here >>>

Equipment and Log Data

Service Order:

Gamma		Density		Neutron		Sonic		IAT/DLL	
Run No.	One	Run No.	One	Run No.	One	Run No.	One	Run No.	One
Serial No.	2700	Serial No.	0872	Serial No.	2541	Serial No.		Serial No.	110
O.D.	3.375 in.	Source No.	70997B	Source No.	59796G	Centralizers		Standoffs	@
		O.D.	4.5 in.	O.D.	3.375 in.	O.D.	3.375 in.	O.D	3.875 in.

Logging Pass Data

General			Gamma		Density			Neutron			Sonic			IAT/DLL	
			Scales		Scales			Scales			Scales			Scales	
Run	Depths		Left	Right	Left	Right	Matrix	Left	Right	Matrix	Left	Right	Matrix	Left	Right
One	0	7408	0	150	0.3	-0.1	2.71	0.3	-0.1	2.71				0.2	2000

Comments

Tools ran as per tool sketch
CNL ran eccentralized using bowspring
Annular Volume calculated using 7 in casing
Chlorides reported at 29000 PPM
10 in IAT curve affectd by Chlorides

Tight spot detected at 7325 '

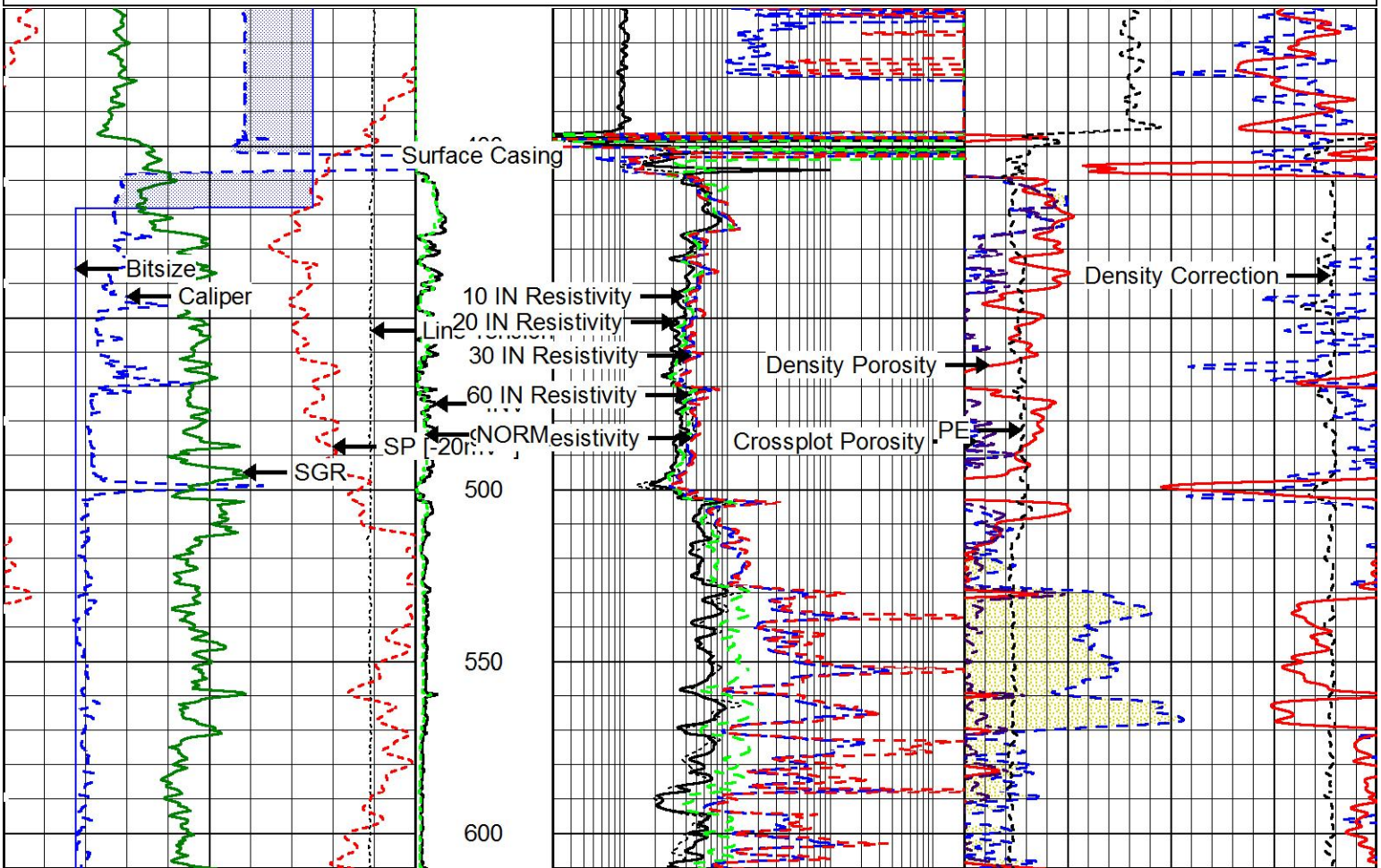
YOUR CREW TODAY: Jeremy Trasti, Alejandro de la Garza, Thomas Melson, Kindle Burket
THANK YOU FOR CHOOSING ALLIED WIRELINE. Midland, TX. (432) 897-1528.

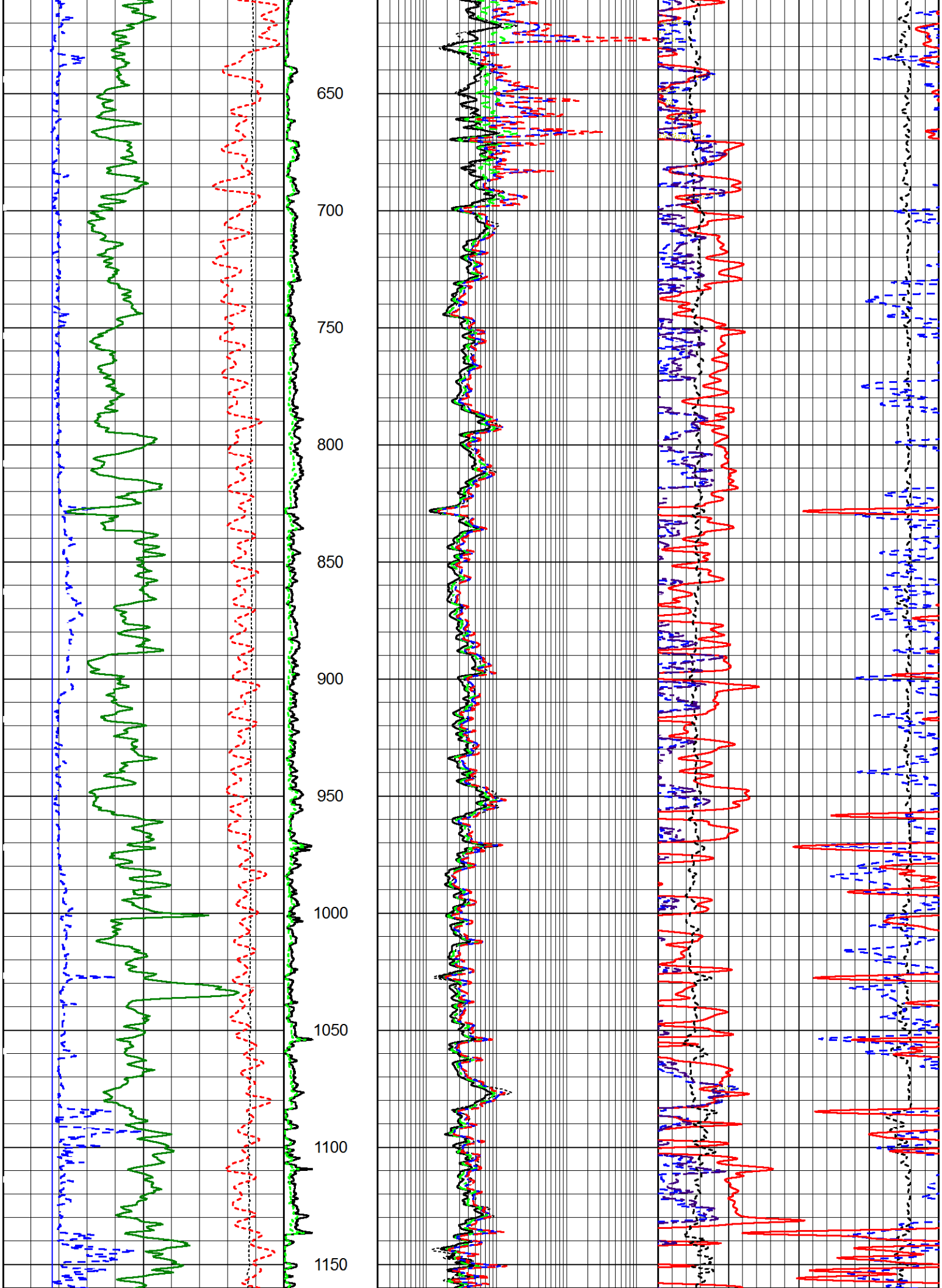
ALLIED HORIZONTAL WIRELINE SERVICES

Main Pass

Database File	enduringreswlybrook.db
Dataset Pathname	West_Lybrook/well/run1/main
Presentation Format	3com_iat
Dataset Creation	Tue Jan 15 15:23:37 2019
Charted by	Depth in Feet scaled 1:600

7	Bitsize (in)	17	INV	0.2	10 IN Resistivity (Ohm-m)	2000	Neutron Porosity		
7	Caliper (in)	17	(Ohm-m)	0.2	20 IN Resistivity (Ohm-m)	2000	0.3	(Porosity Decimal Fraction)	-0.1
	SP [-20mV+]		0 20	0.2	30 IN Resistivity (Ohm-m)	2000	Density Porosity		
0	SGR (GAPI)	200	NORM	0.2	60 IN Resistivity (Ohm-m)	2000	0.3	(Porosity Decimal Fraction)	-0.1
	Line Tension		(Ohm-m)	0.2	90 IN Resistivity (Ohm-m)	2000	Crossplot Porosity		
	5000 (lb)	0	0 20				0.3	(Porosity Decimal Fraction)	-0.1
							0 PE 10	Density Correction	
								0.8 (g/cc)	-0.2

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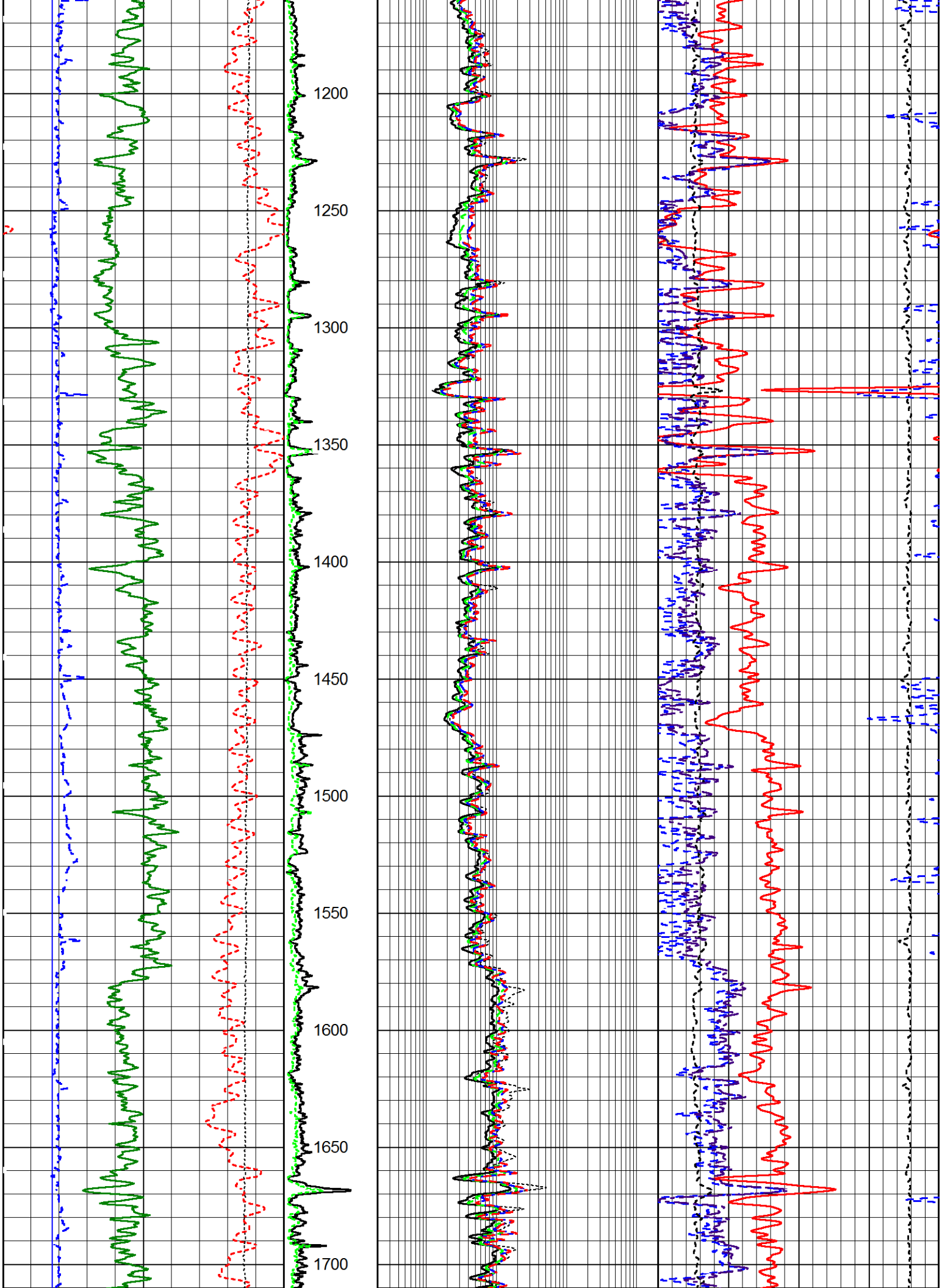
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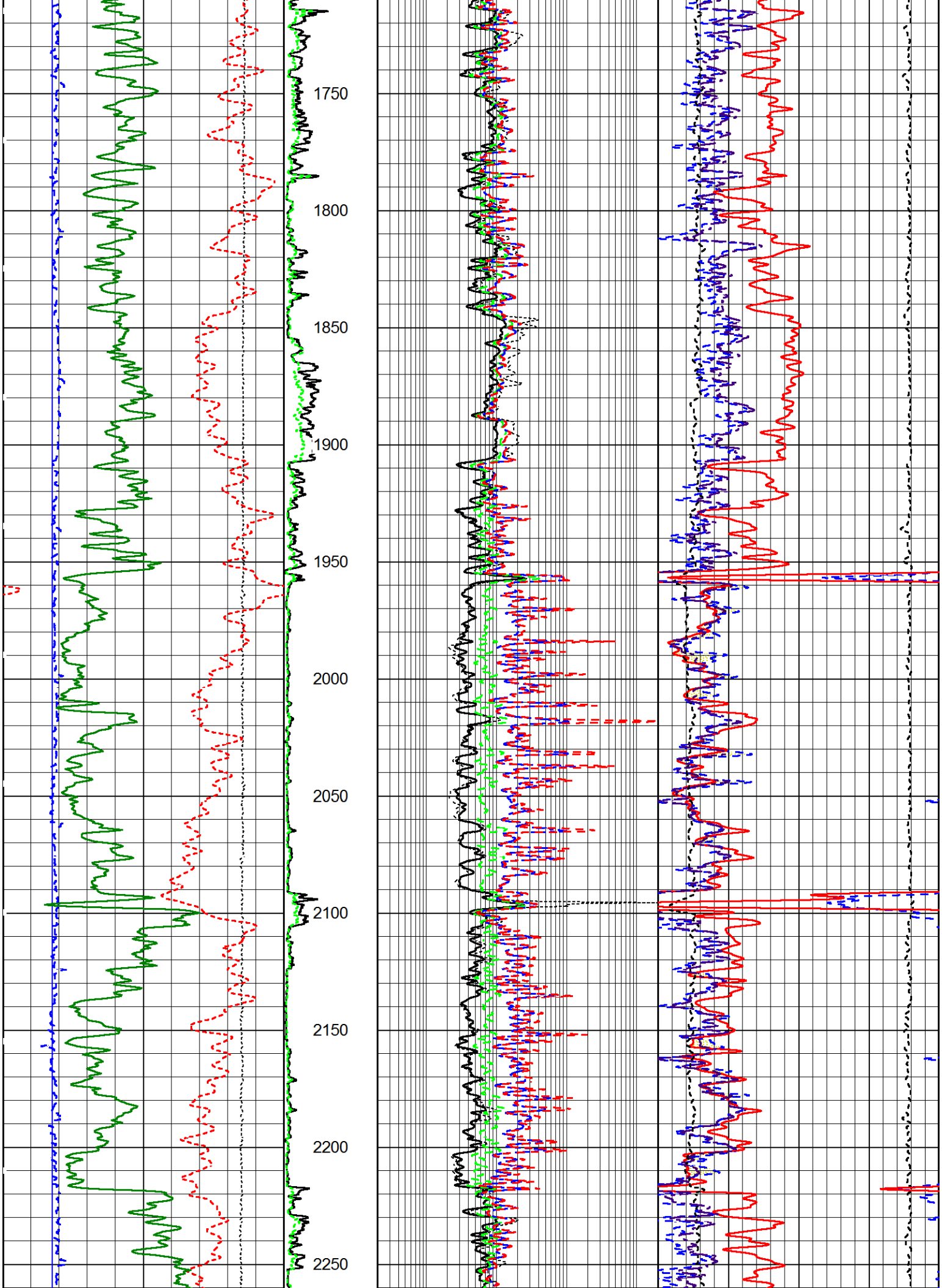
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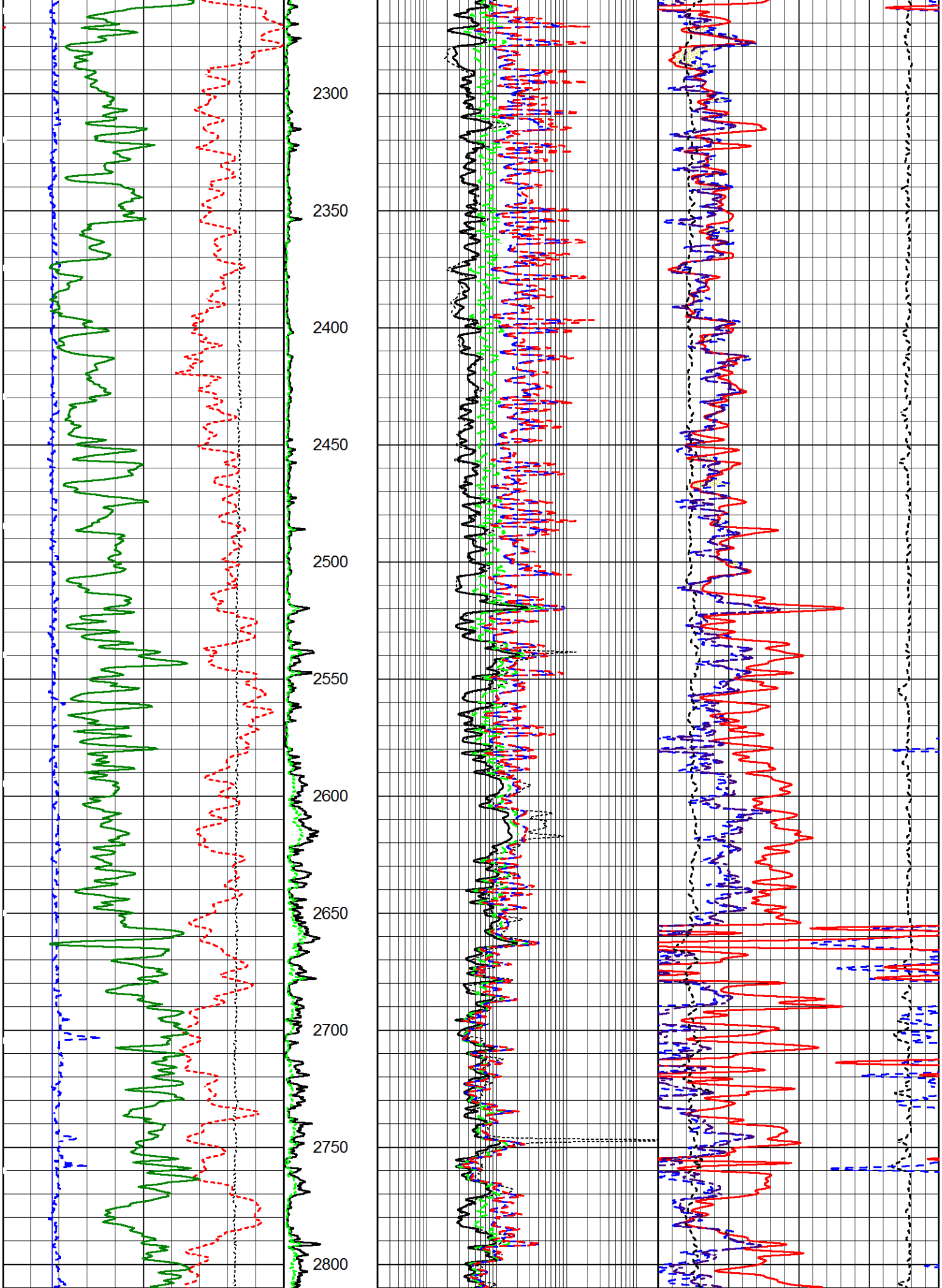
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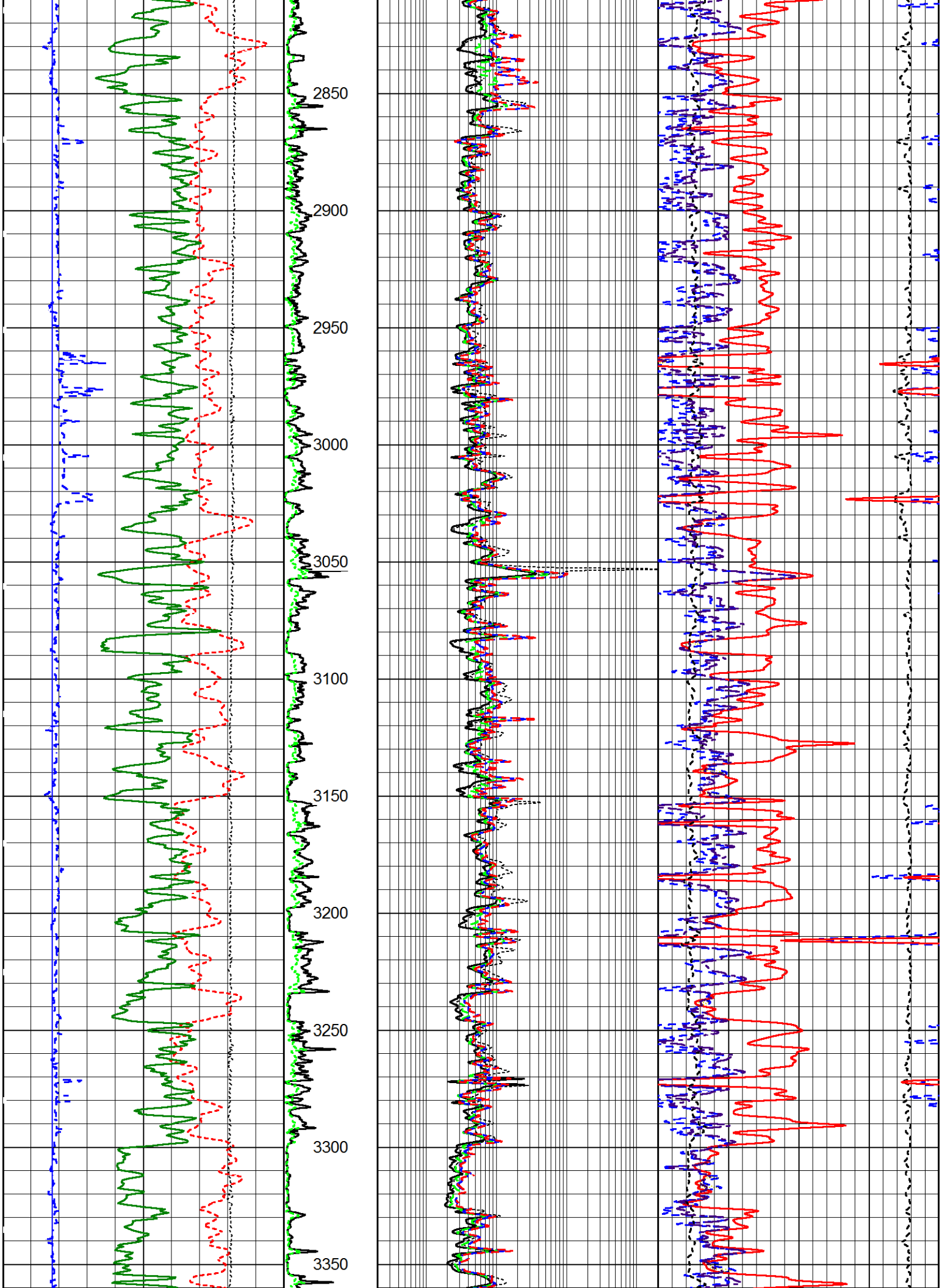
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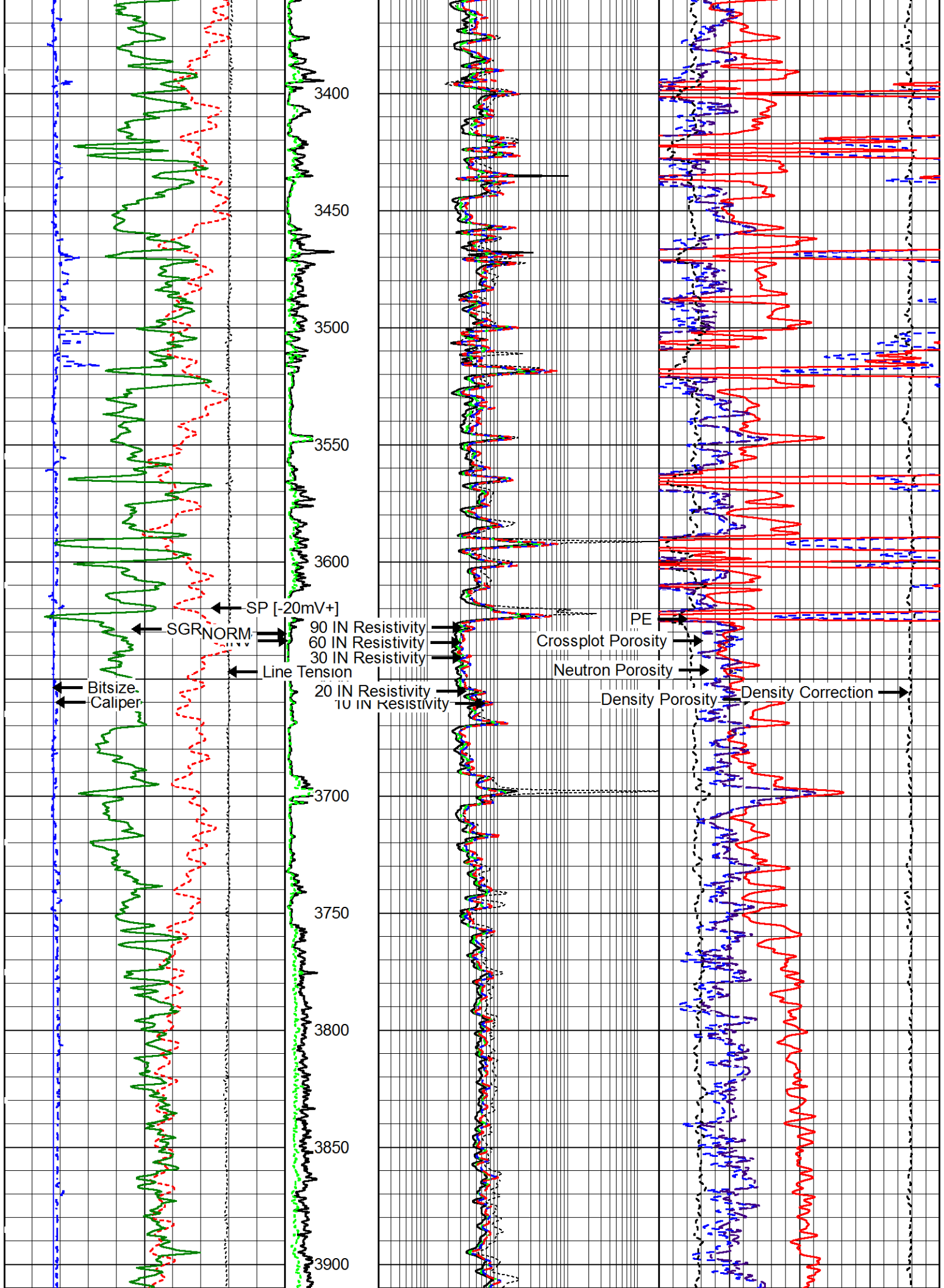
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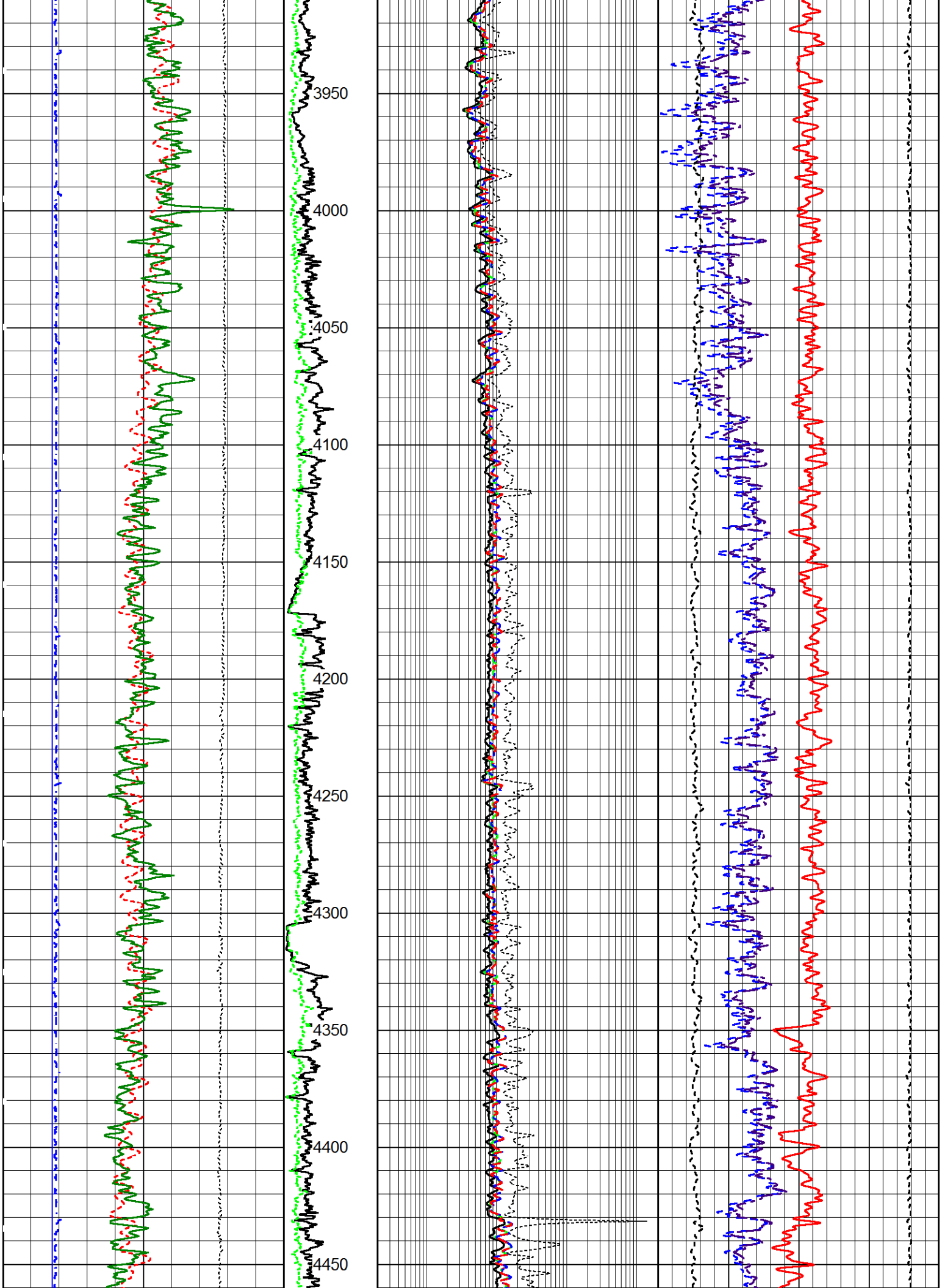
SP [-20mV+]
SGR
NORM
Line Tension
Bitsize
Caliper
90 IN Resistivity
60 IN Resistivity
30 IN Resistivity
20 IN Resistivity
10 IN Resistivity
PE
Crossplot Porosity
Neutron Porosity
Density Porosity
Density Correction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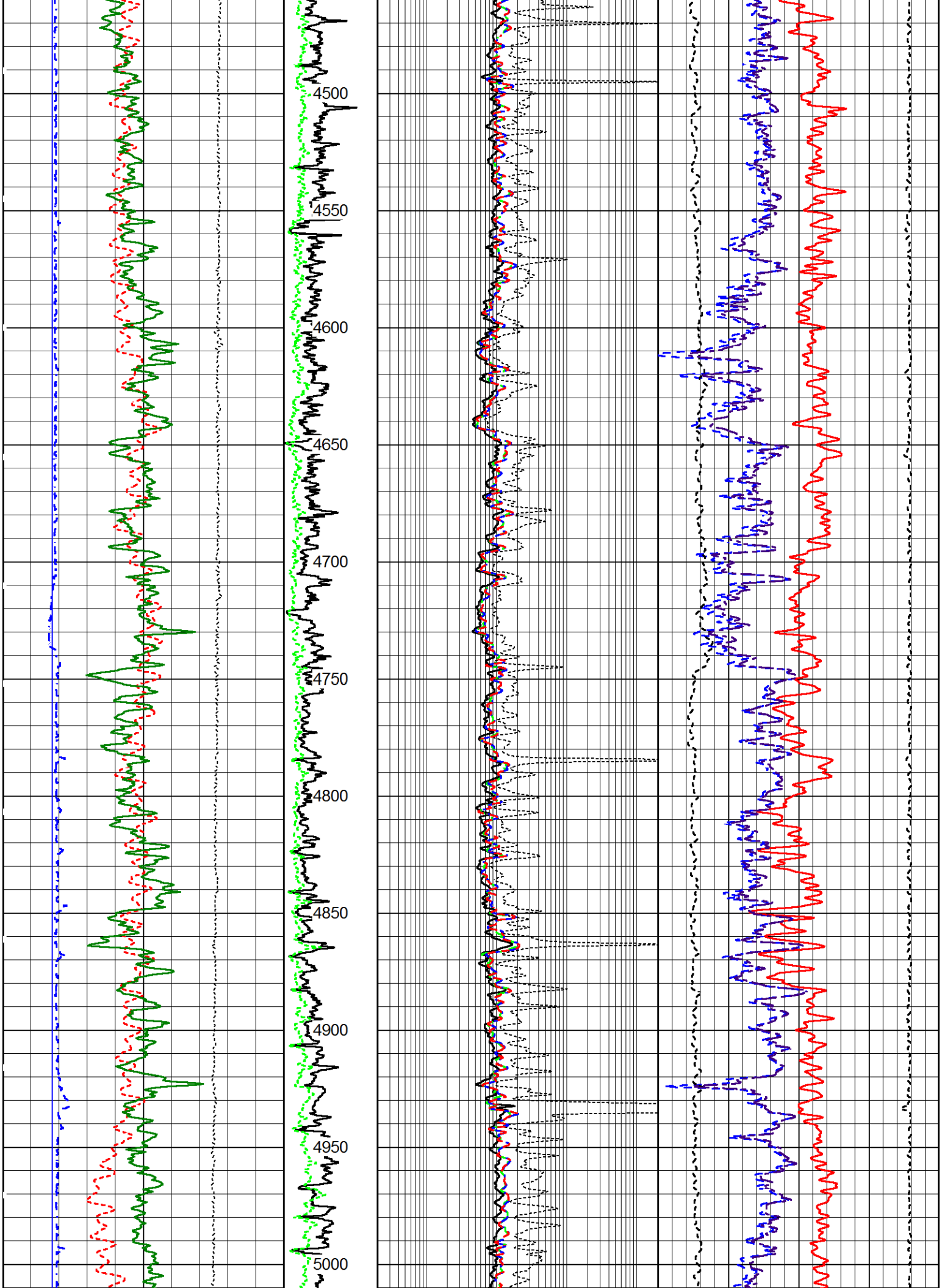
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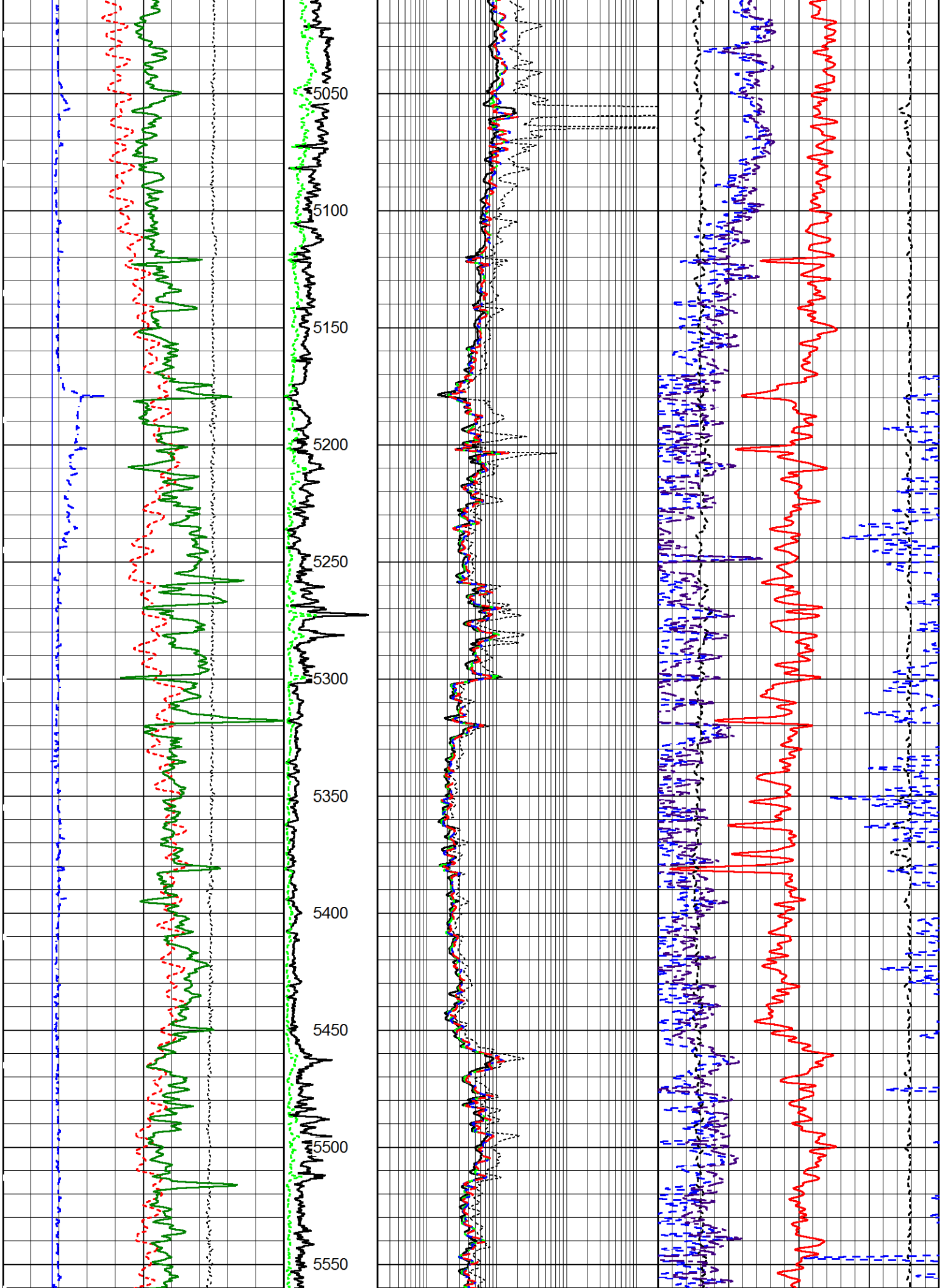
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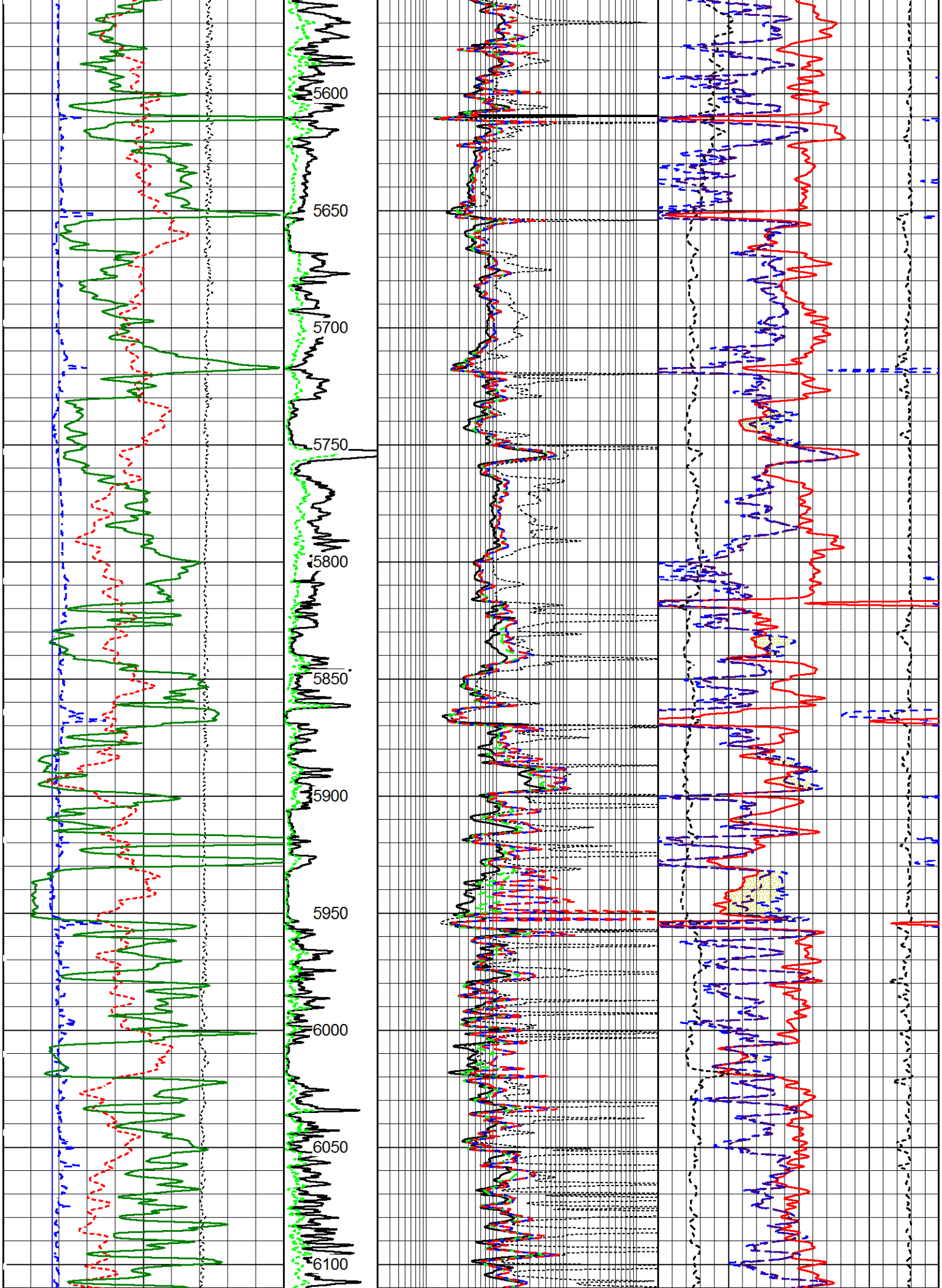
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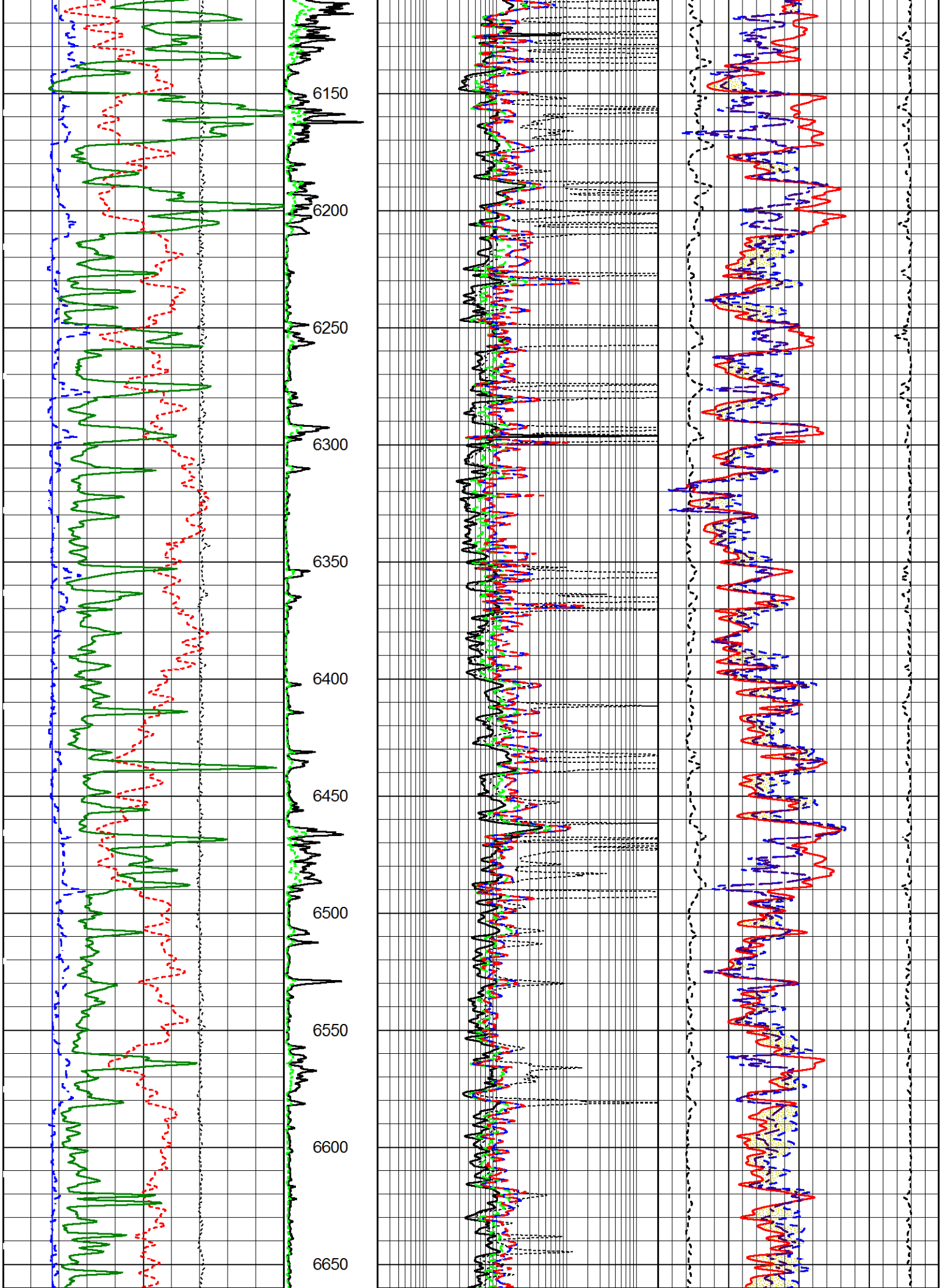
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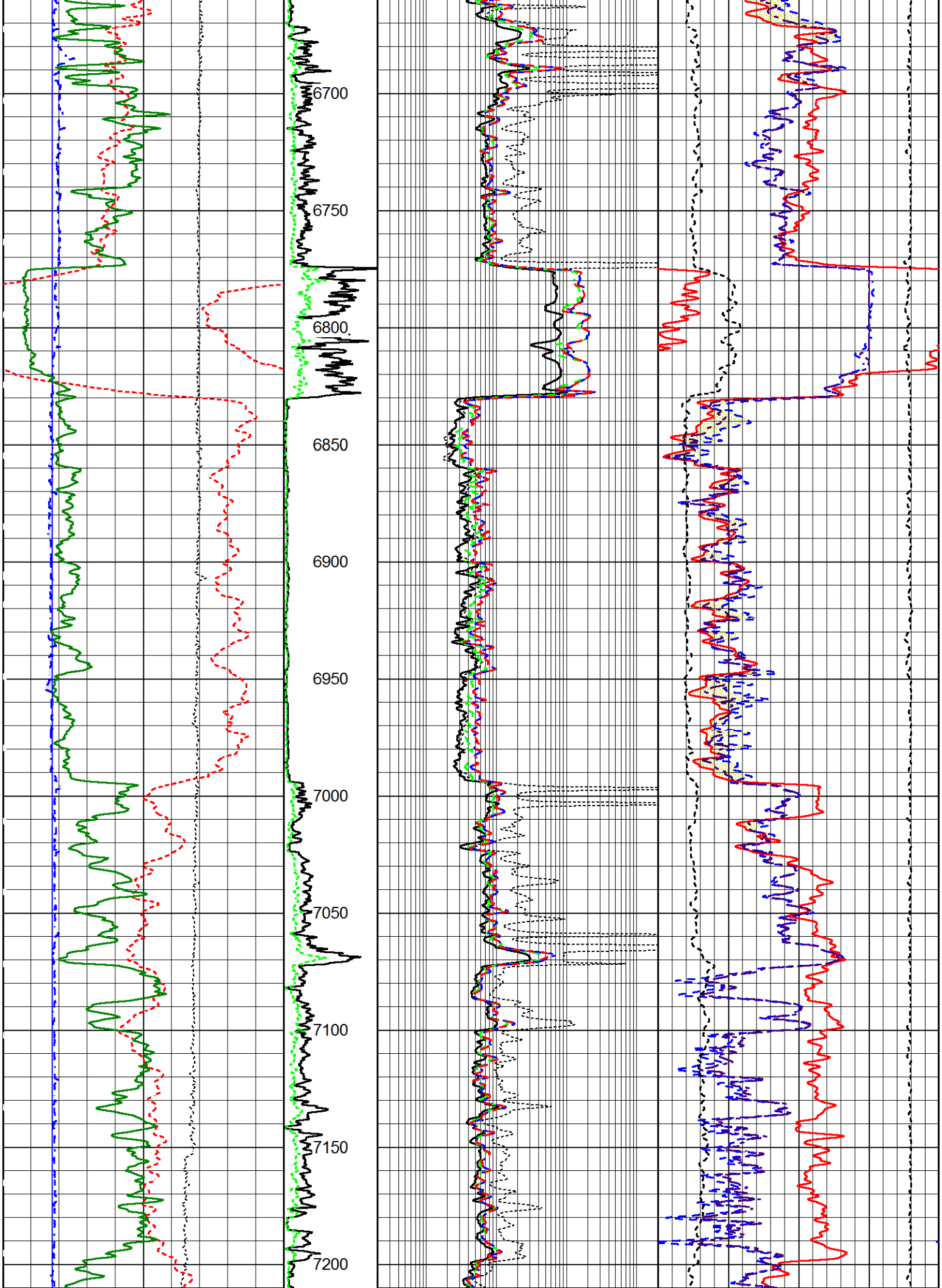
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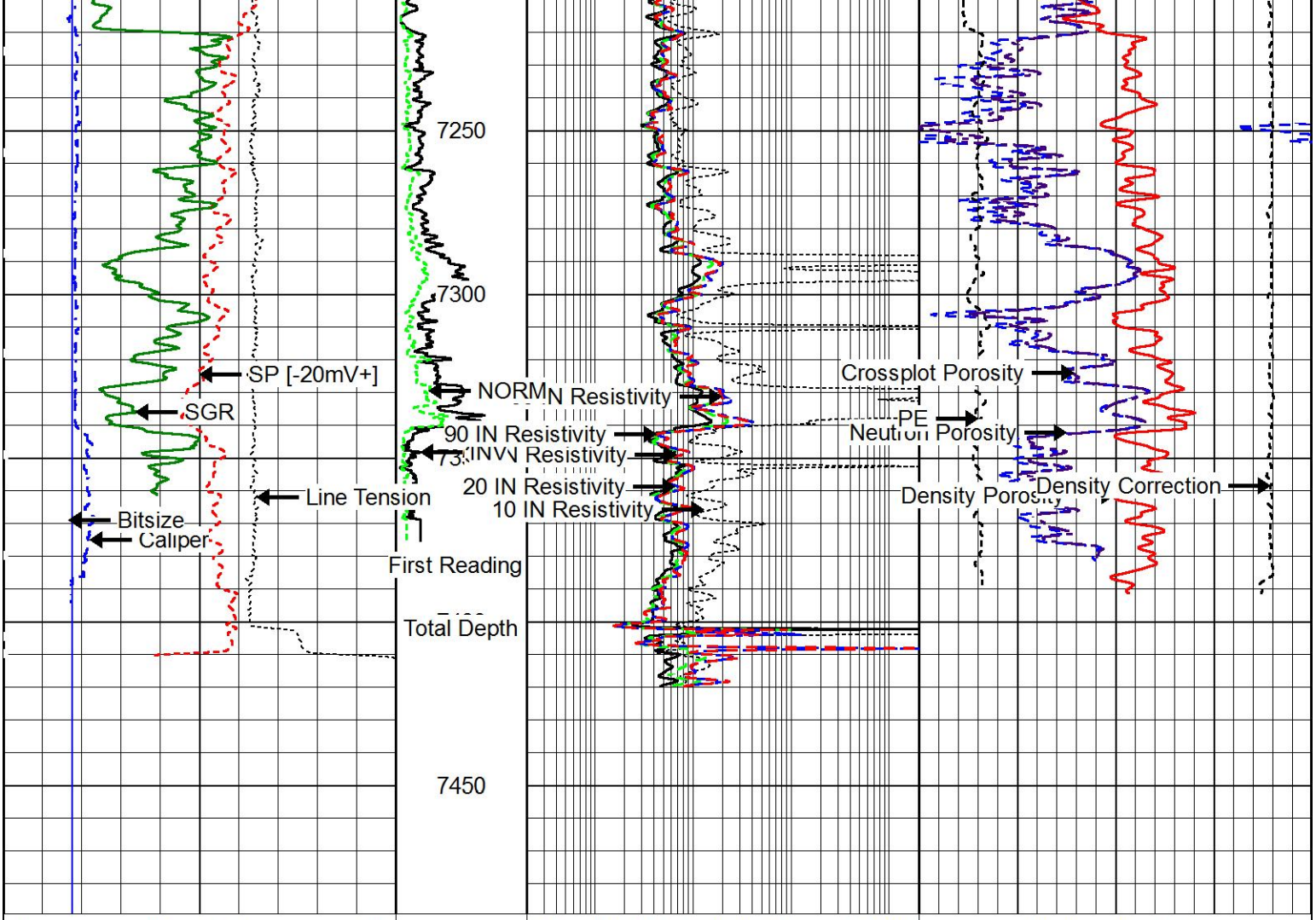


7 Bitsize (in) 17	INV	0.2 10 IN Resistivity (Ohm-m) 2000	Neutron Porosity		
7 Caliper (in) 17	(Ohm-m)	0.2 20 IN Resistivity (Ohm-m) 2000	0.3 (Porosity Decimal Fraction) -0.1		
SP [-20mV+]	0 20	0.2 30 IN Resistivity (Ohm-m) 2000	Density Porosity		
0 SGR (GAPI) 200	NORM	0.2 60 IN Resistivity (Ohm-m) 2000	0.3 (Porosity Decimal Fraction) -0.1		
Line Tension	(Ohm-m)	0.2 90 IN Resistivity (Ohm-m) 2000	Crossplot Porosity		
5000 (lb) 0	0 20		0.3 (Porosity Decimal Fraction) -0.1		
			0 PE 10	Density Correction	
				0.8 (g/cc) -0.2	

ALLIED HORIZONTAL WIRELINE SERVICES

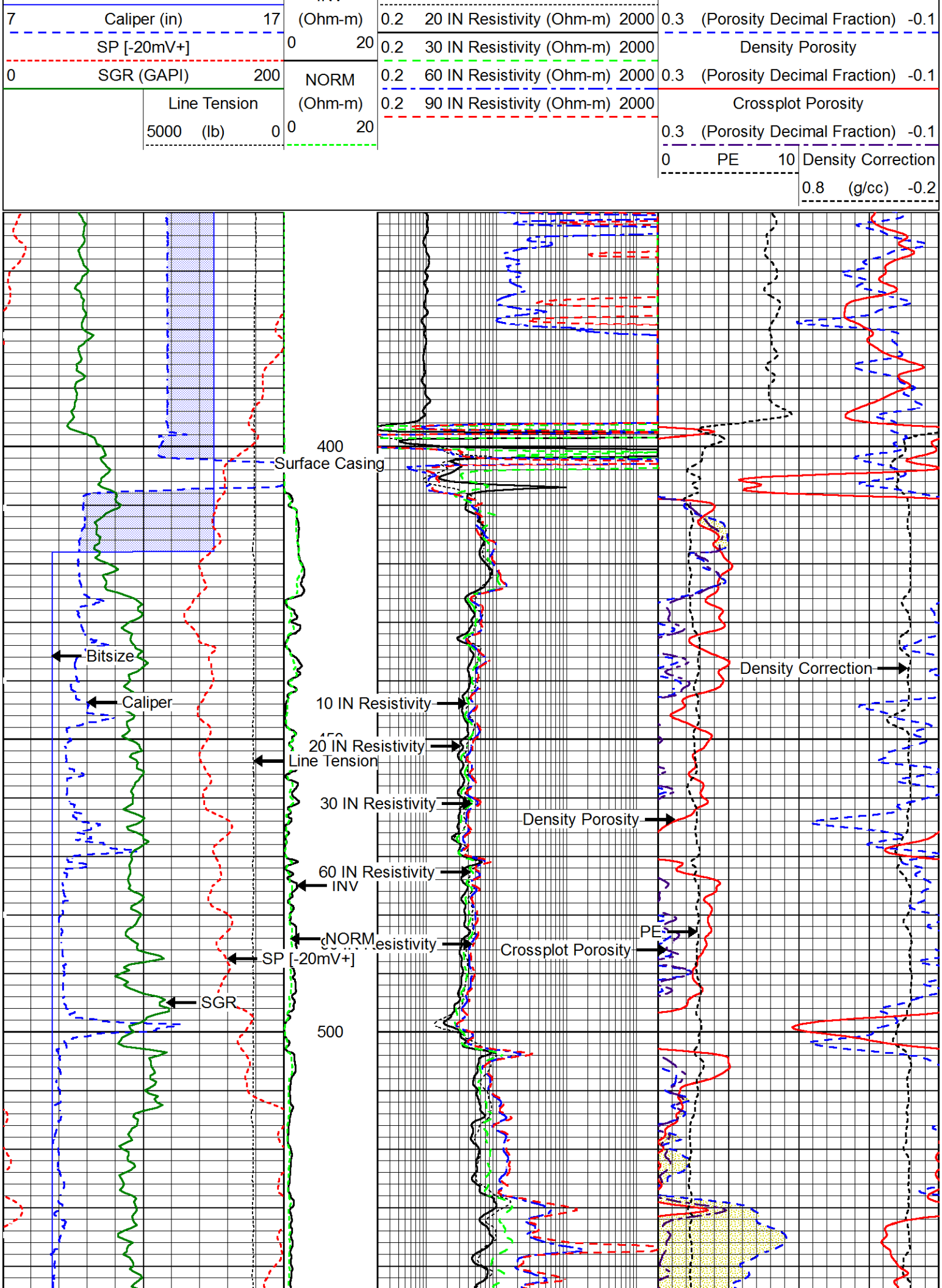
Main Pass

ALLIED HORIZONTAL WIRELINE SERVICES

Main Pass

Database File	enduringreswlybrook.db
Dataset Pathname	West_Lybrook/well/run1/main
Presentation Format	3com_iat
Dataset Creation	Tue Jan 15 15:23:37 2019
Charted by	Depth in Feet scaled 1:240

7 Bitsize (in) 17	INV	0.2 10 IN Resistivity (Ohm-m) 2000	Neutron Porosity		
7 Caliper (in) 17	(Ohm-m)	0.2 20 IN Resistivity (Ohm-m) 2000	0.3 (Porosity Decimal Fraction) -0.1		
SP [-20mV+]	0 20	0.2 30 IN Resistivity (Ohm-m) 2000	Density Porosity		
0 SGR (GAPI) 200	NORM	0.2 60 IN Resistivity (Ohm-m) 2000	0.3 (Porosity Decimal Fraction) -0.1		
Line Tension	(Ohm-m)	0.2 90 IN Resistivity (Ohm-m) 2000	Crossplot Porosity		
5000 (lb) 0	0 20		0.3 (Porosity Decimal Fraction) -0.1		
			0 PE 10	Density Correction	
				0.8 (g/cc) -0.2	


7 Caliper (in) 17
SP [-20mV+]
0 SGR (GAPI) 200
Line Tension
5000 (lb) 0
(Ohm-m)
0 20
NORM
(Ohm-m)
0 20
0.2 20 IN Resistivity (Ohm-m) 2000
0.2 30 IN Resistivity (Ohm-m) 2000
0.2 60 IN Resistivity (Ohm-m) 2000
0.2 90 IN Resistivity (Ohm-m) 2000
0.3 (Porosity Decimal Fraction) -0.1
Density Porosity
0.3 (Porosity Decimal Fraction) -0.1
Crossplot Porosity
0.3 (Porosity Decimal Fraction) -0.1
0 PE 10
Density Correction
0.8 (g/cc) -0.2
400
Surface Casing
Bitsize
Caliper
10 IN Resistivity
20 IN Resistivity
Line Tension
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INV
NORM
SP [-20mV+]
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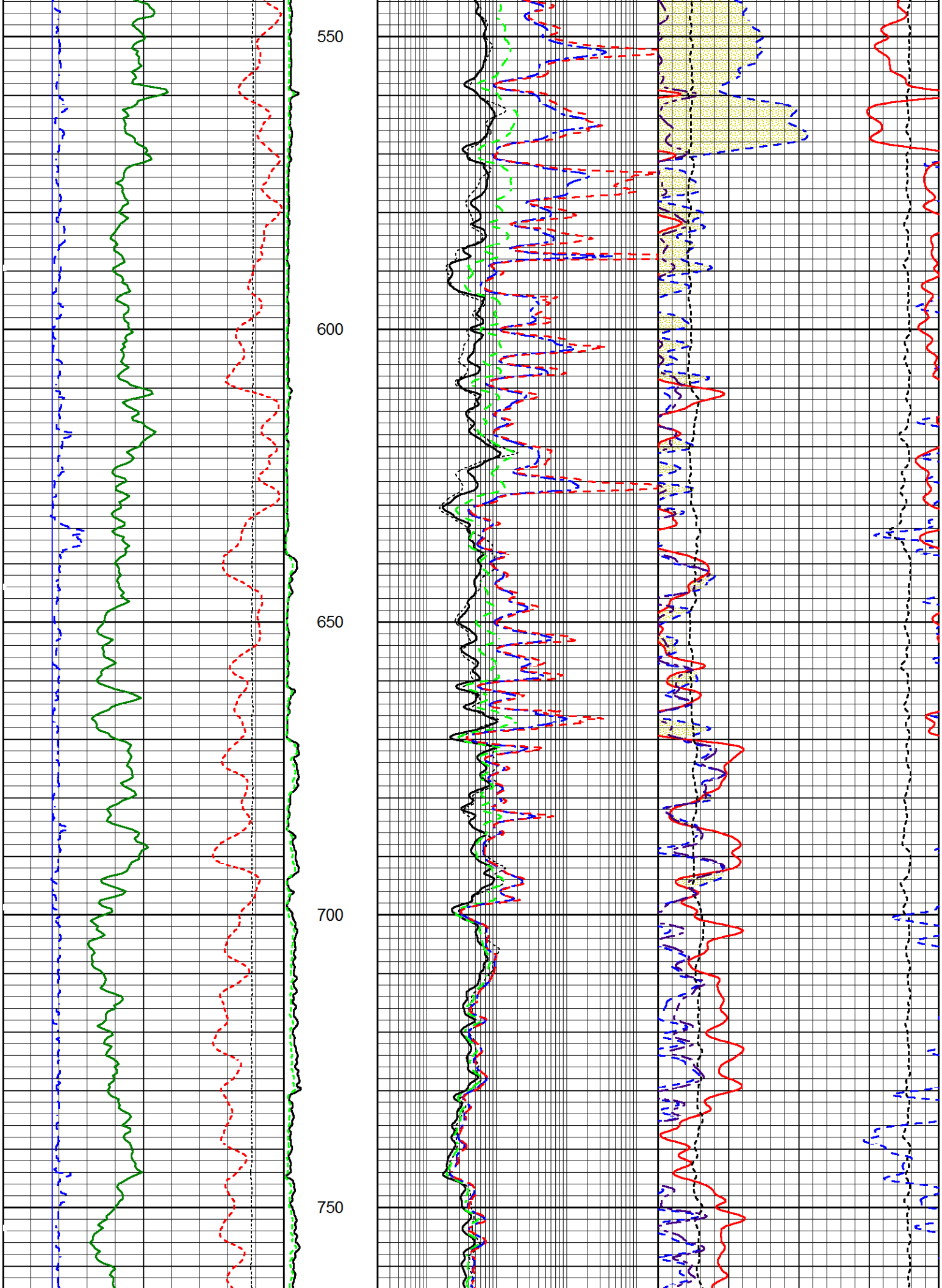
500
Density Correction
Density Porosity
PE
Crossplot Porosity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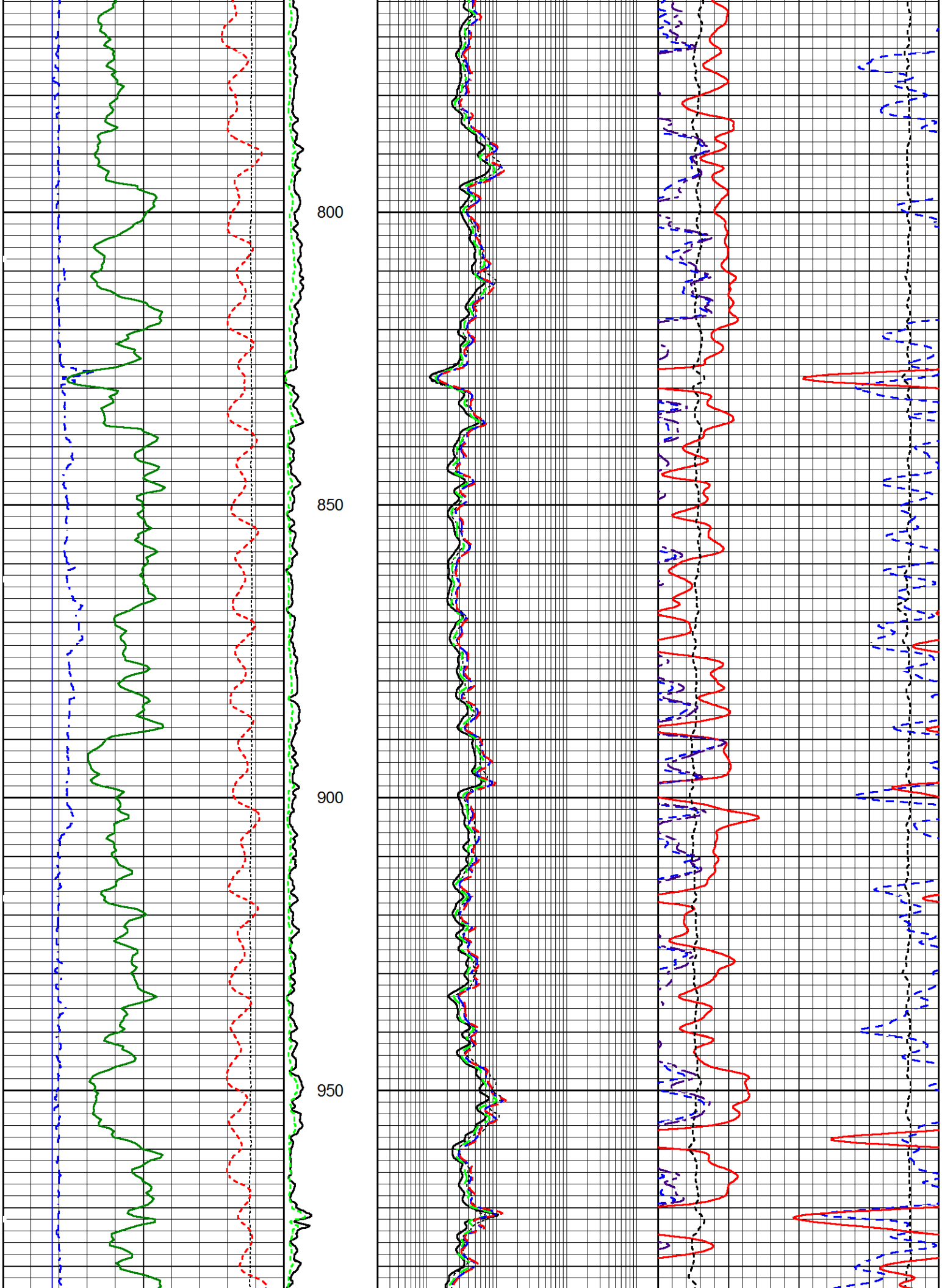
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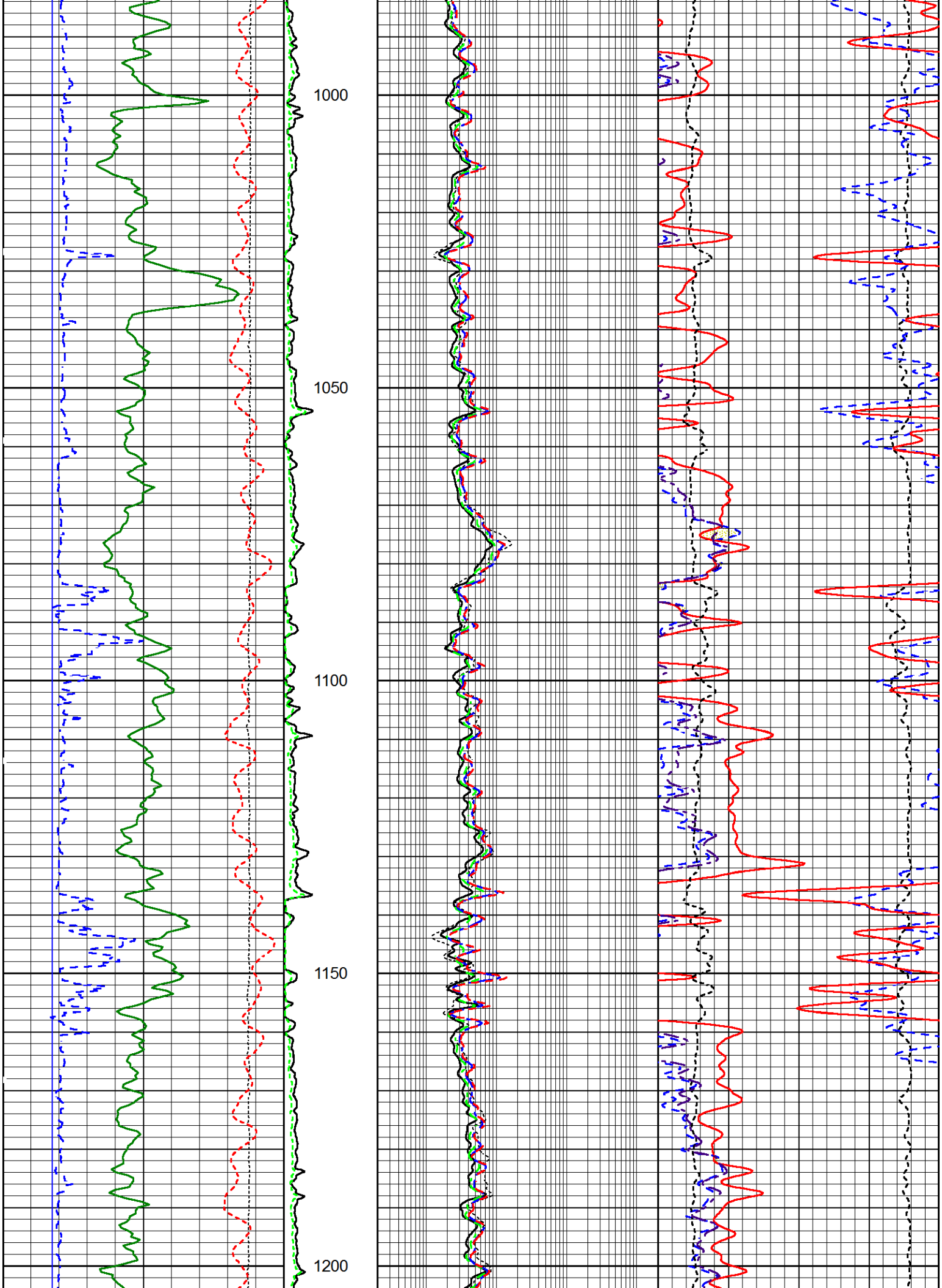
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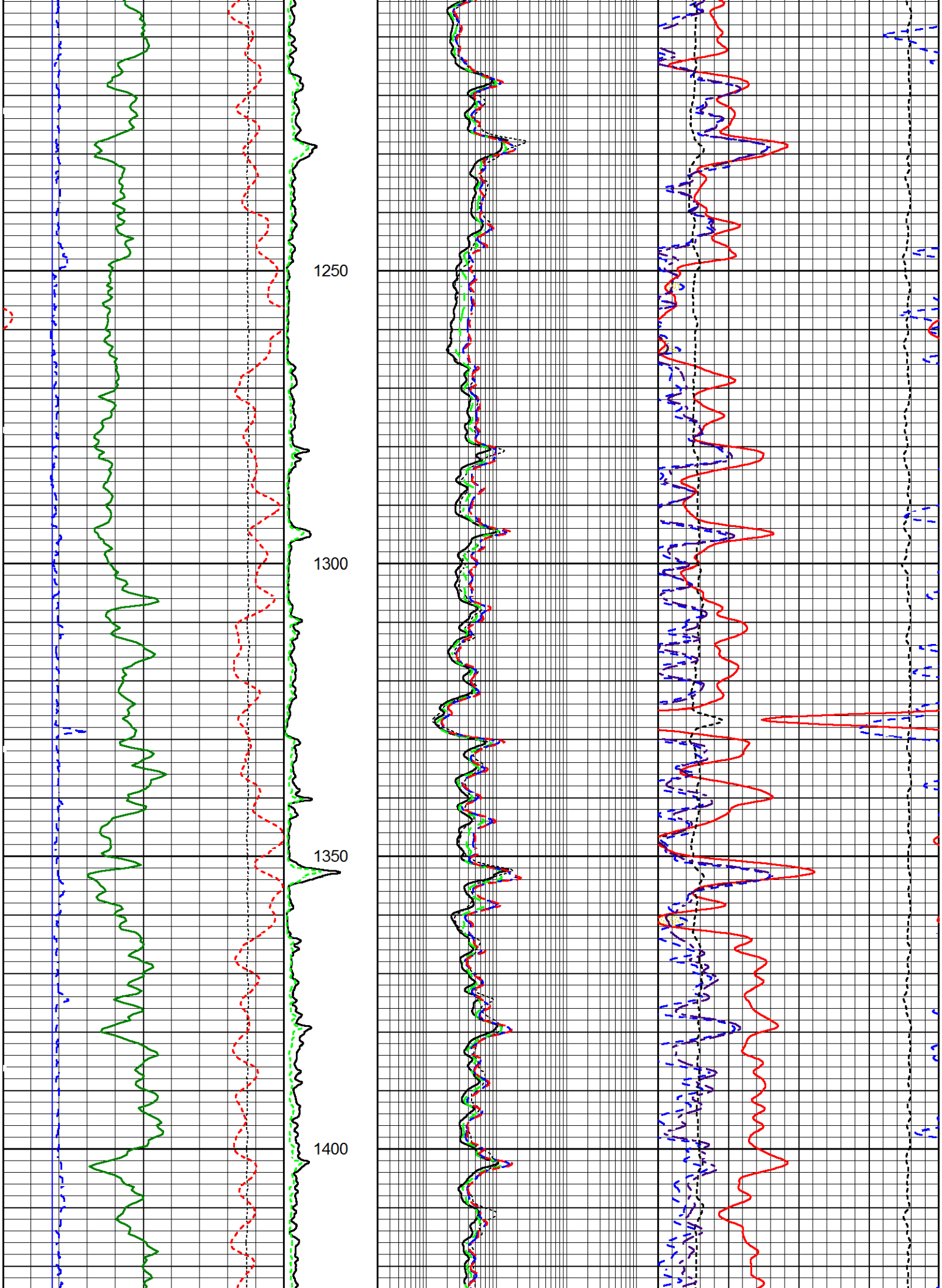
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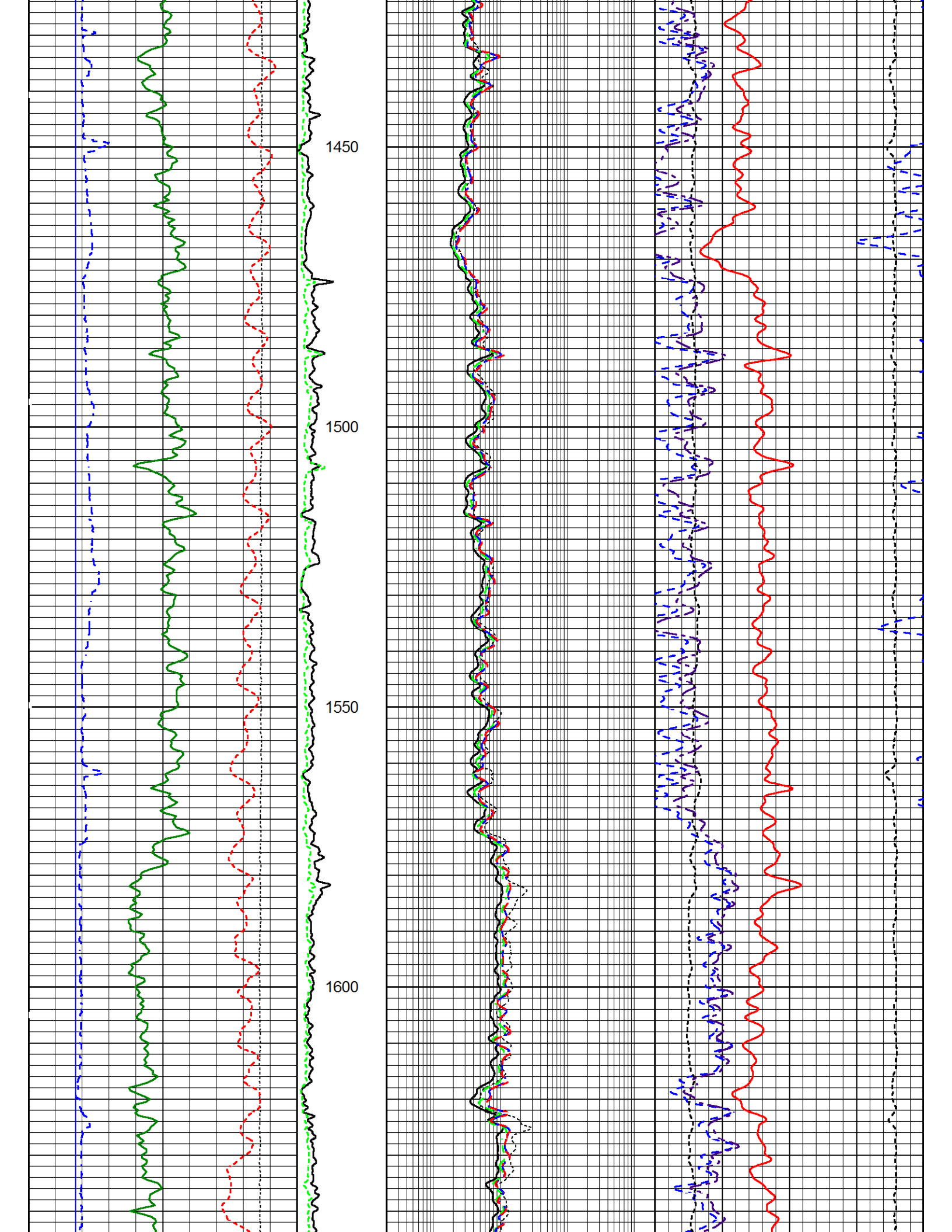
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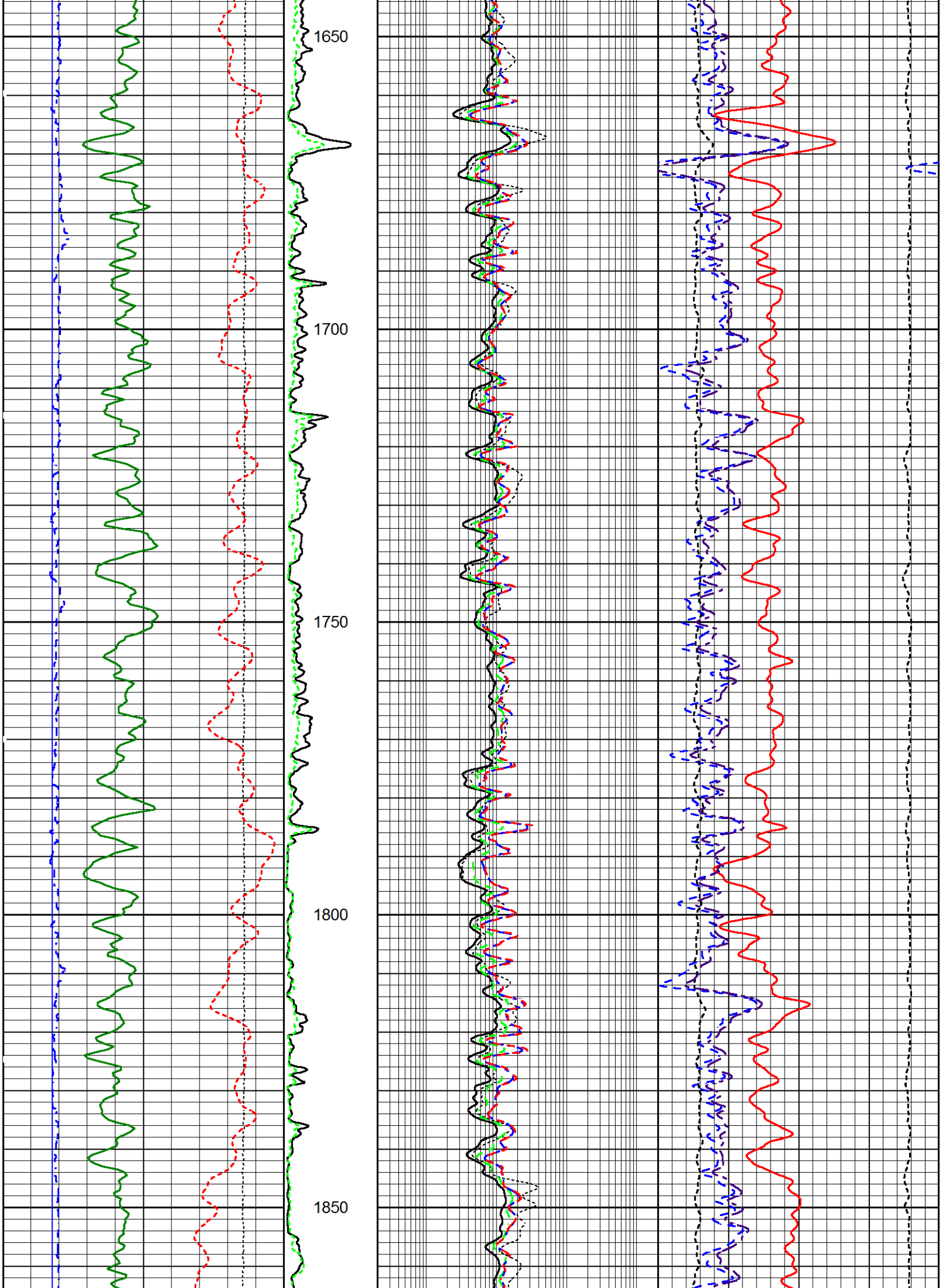
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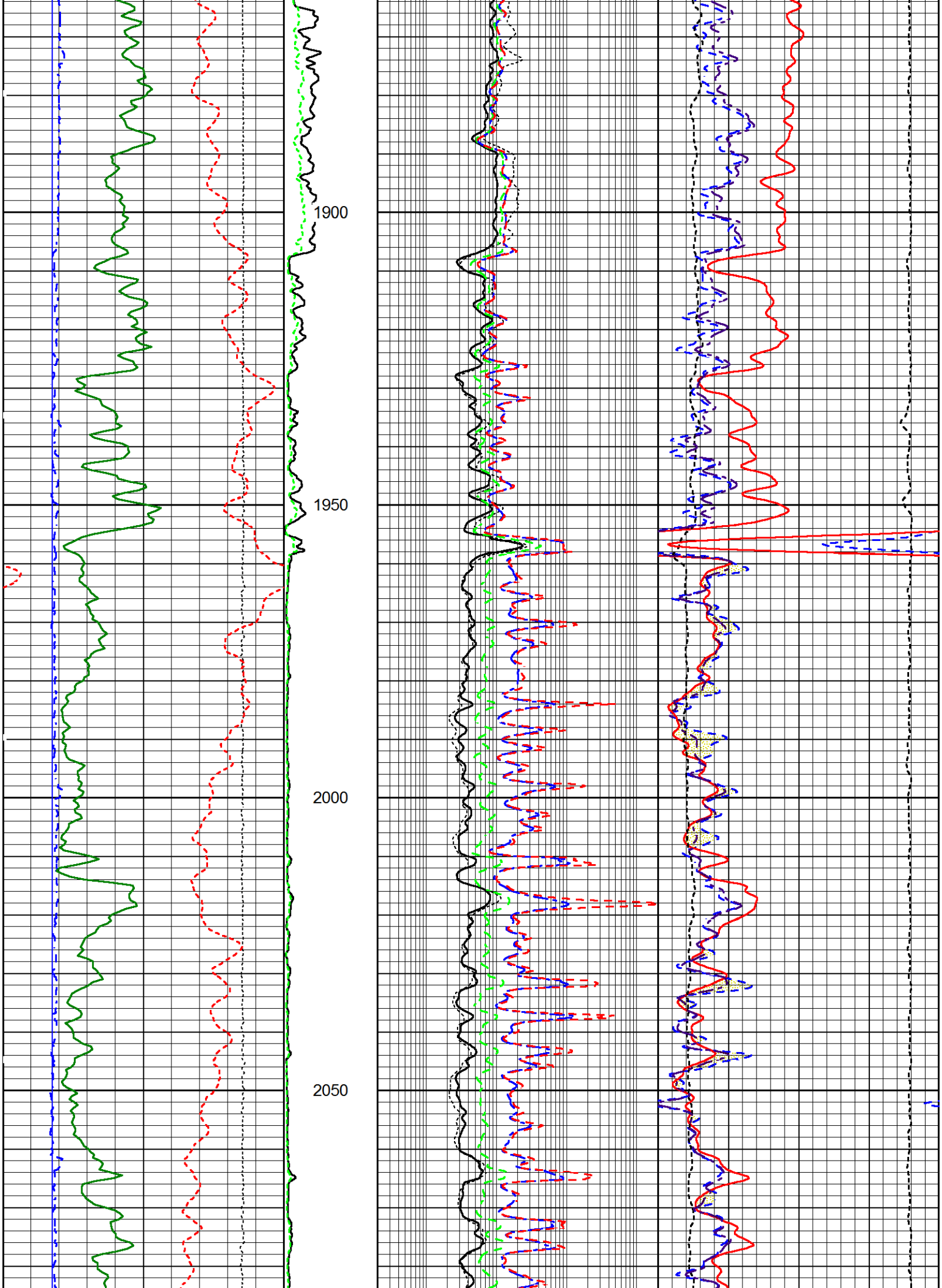
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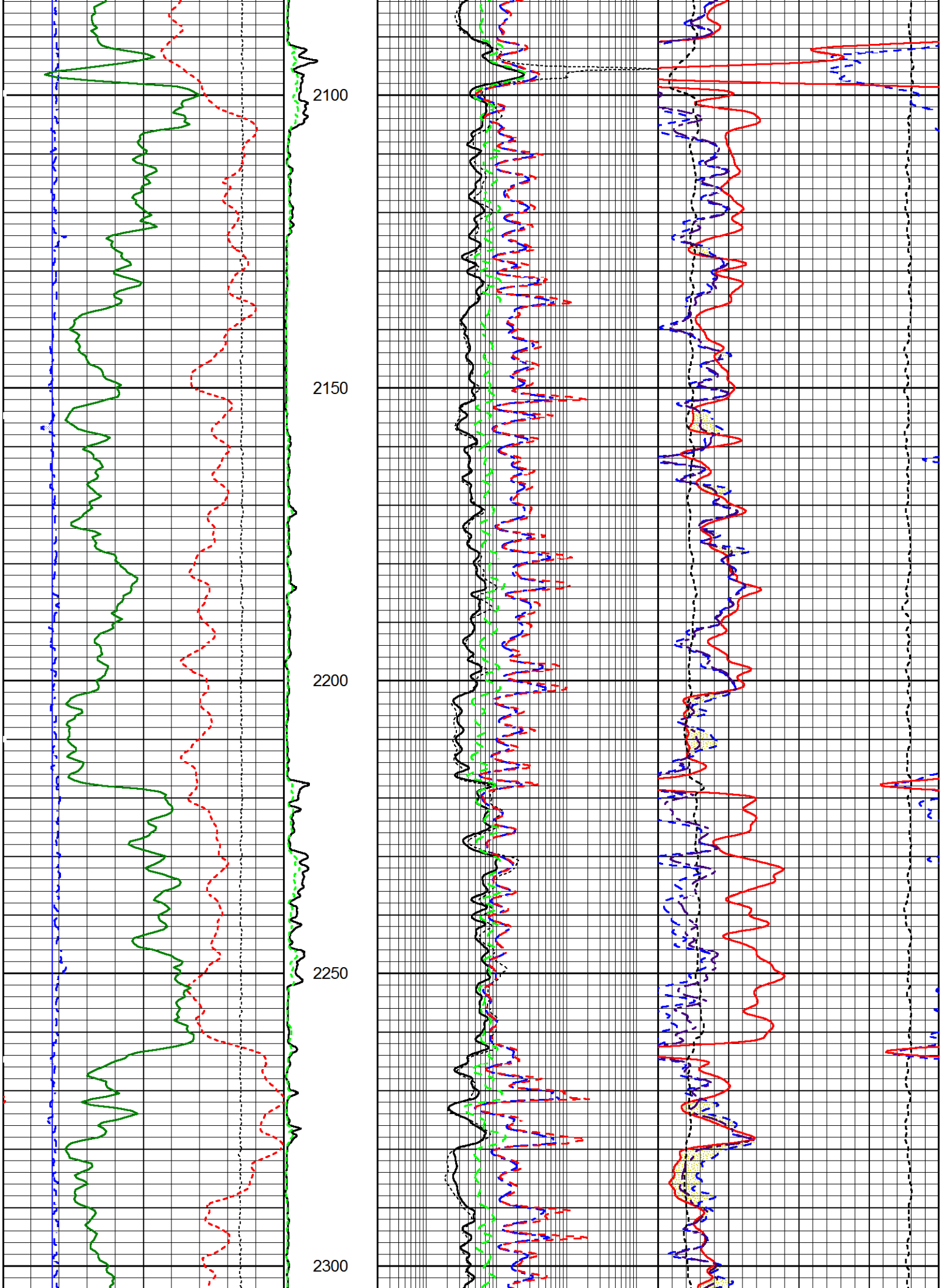
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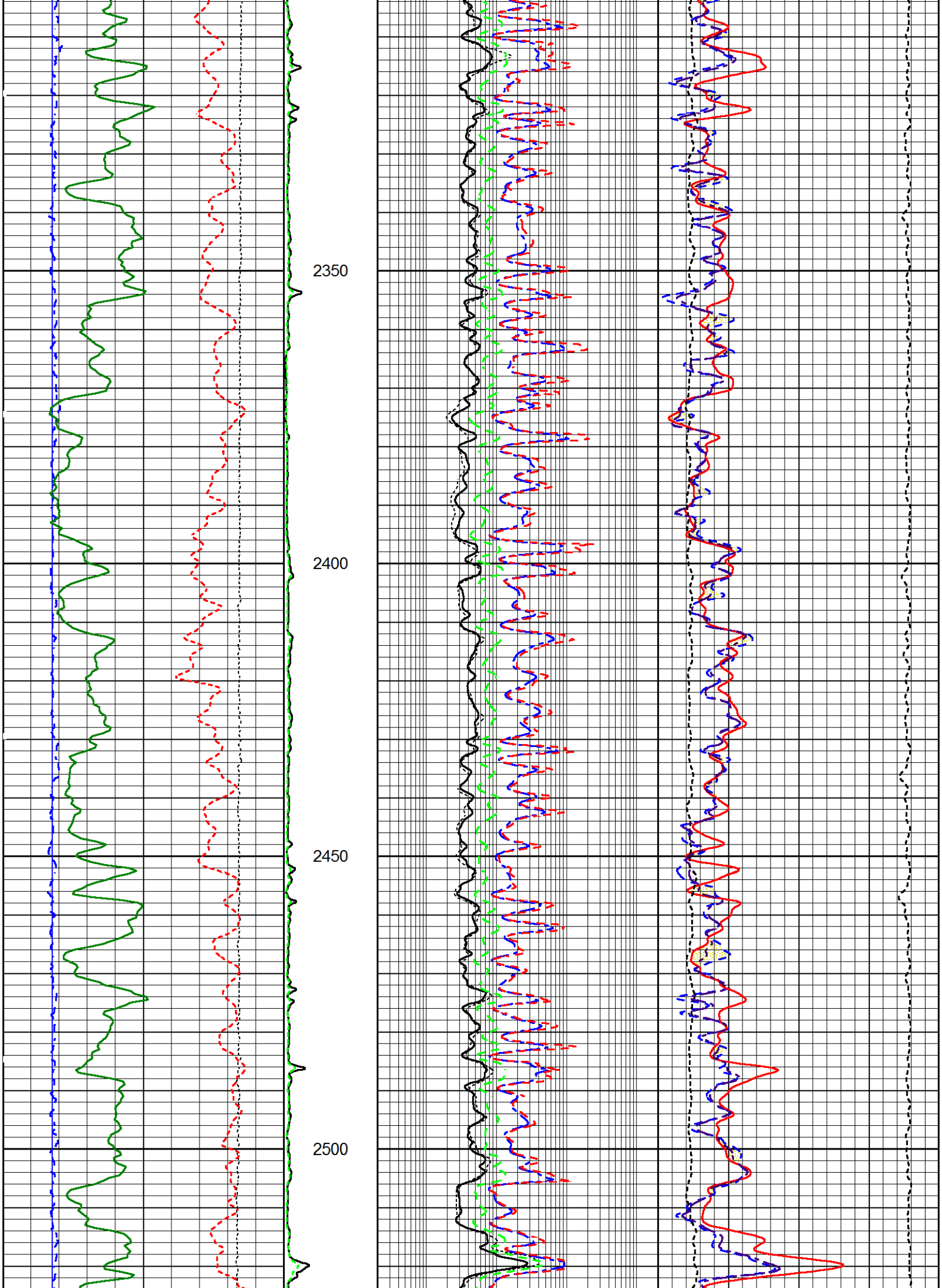
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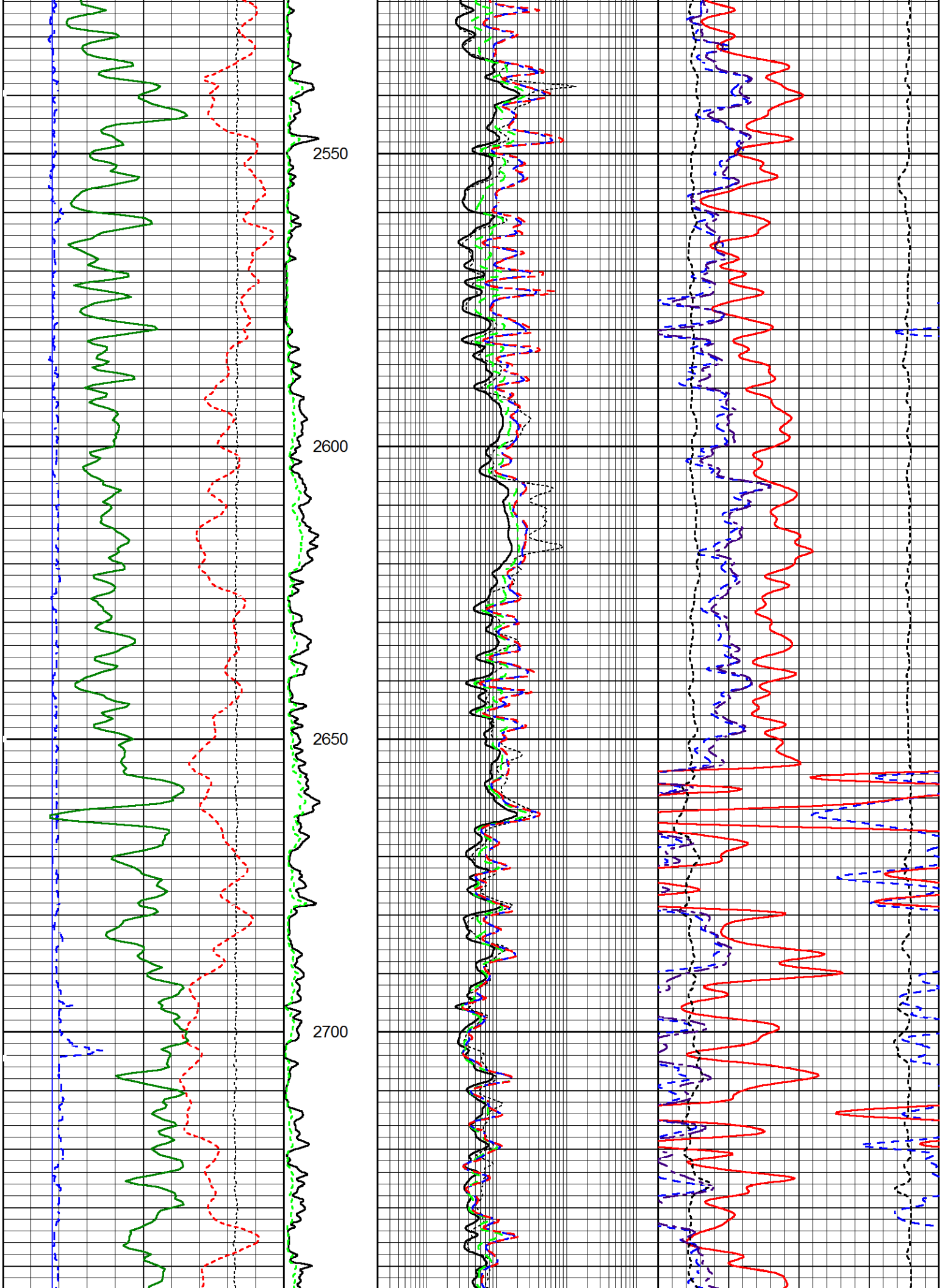
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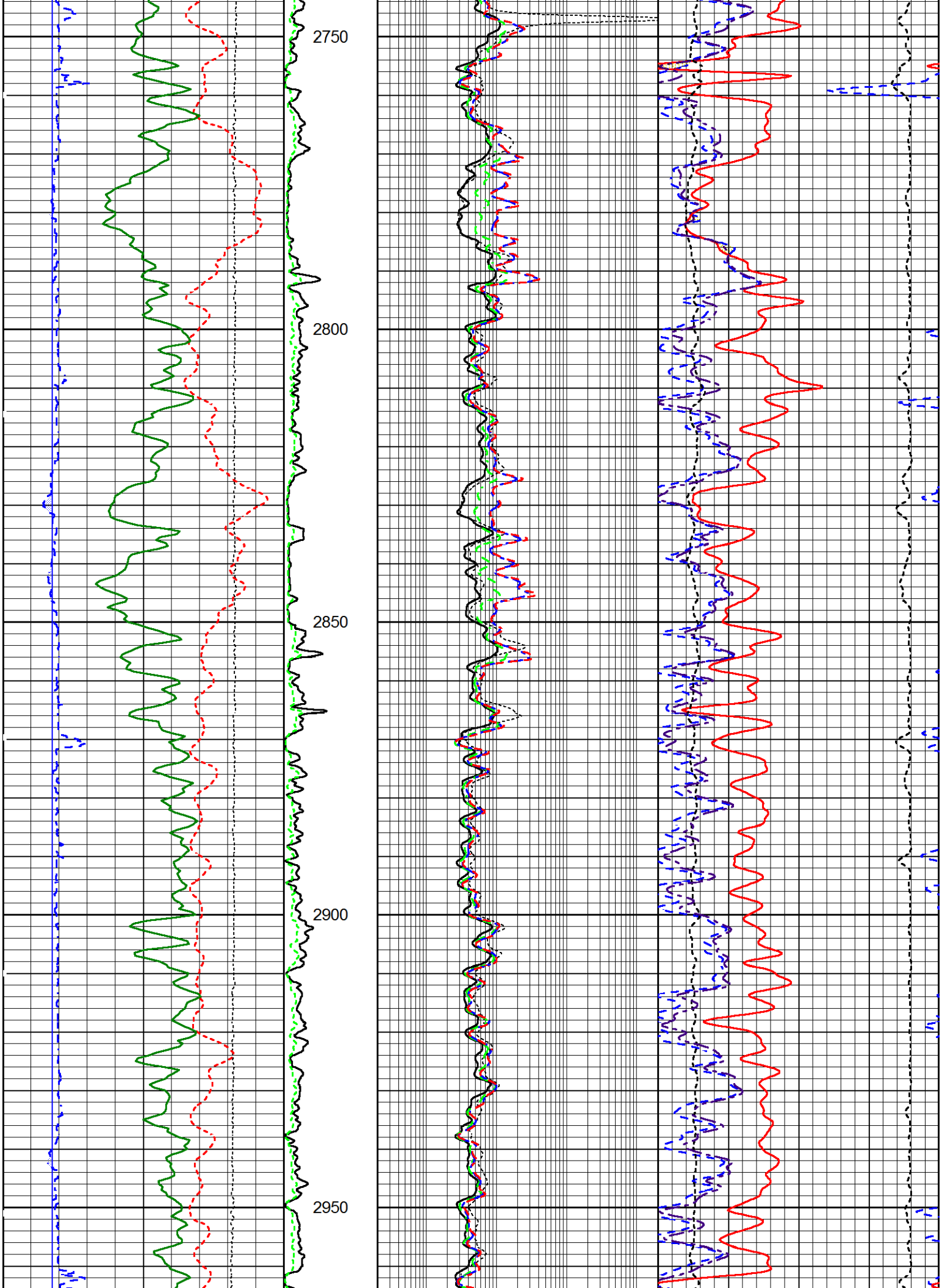
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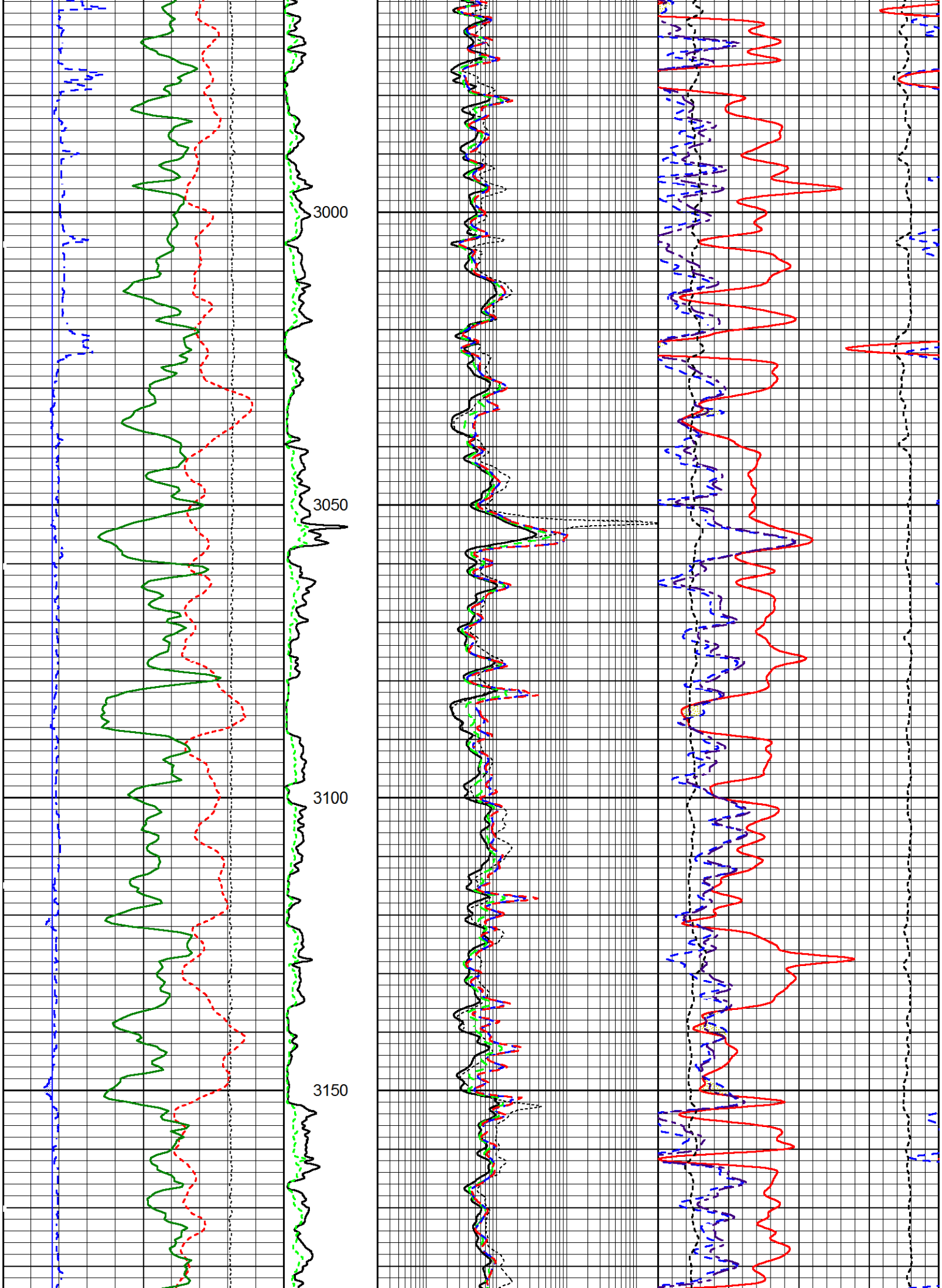
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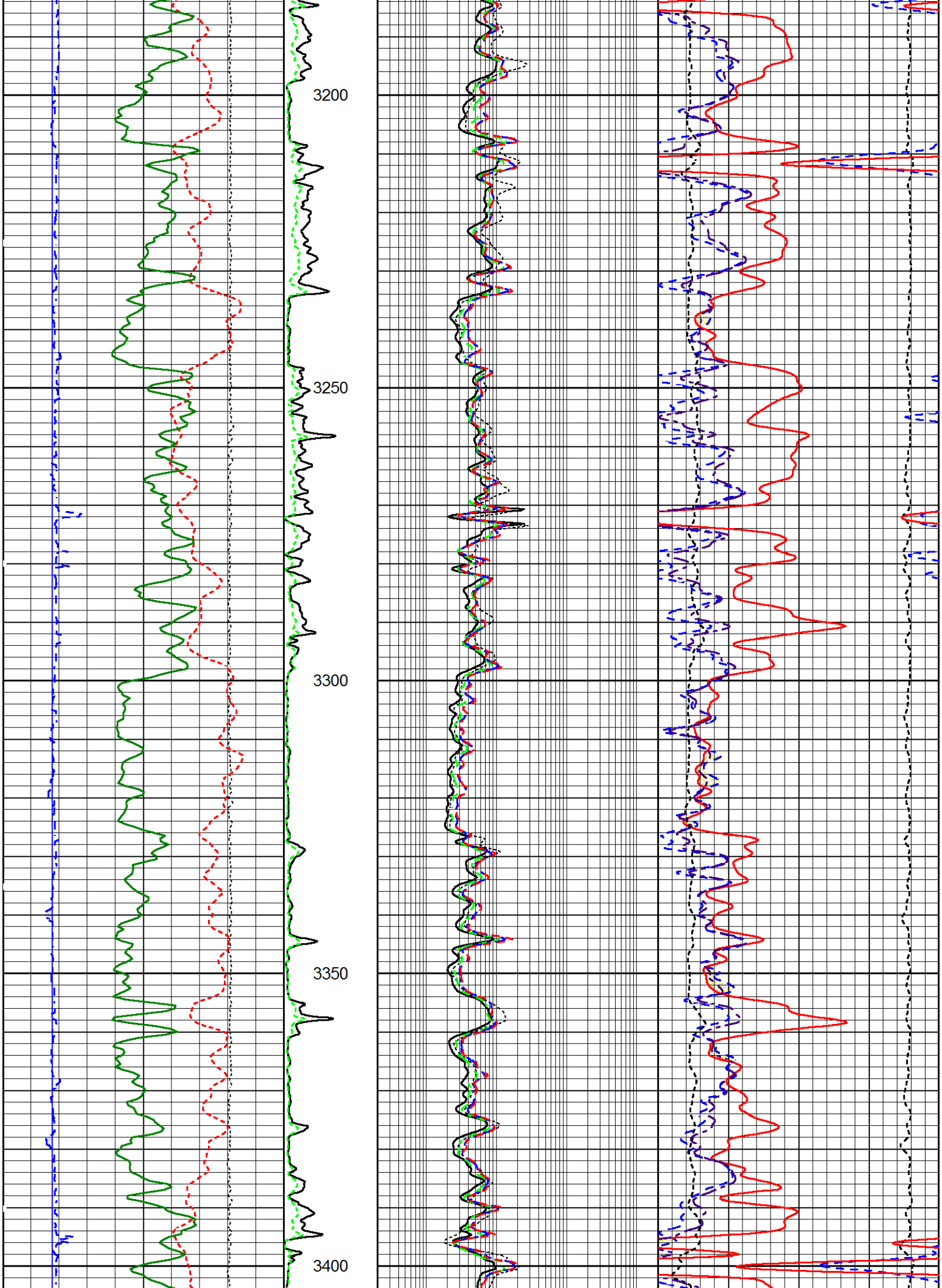
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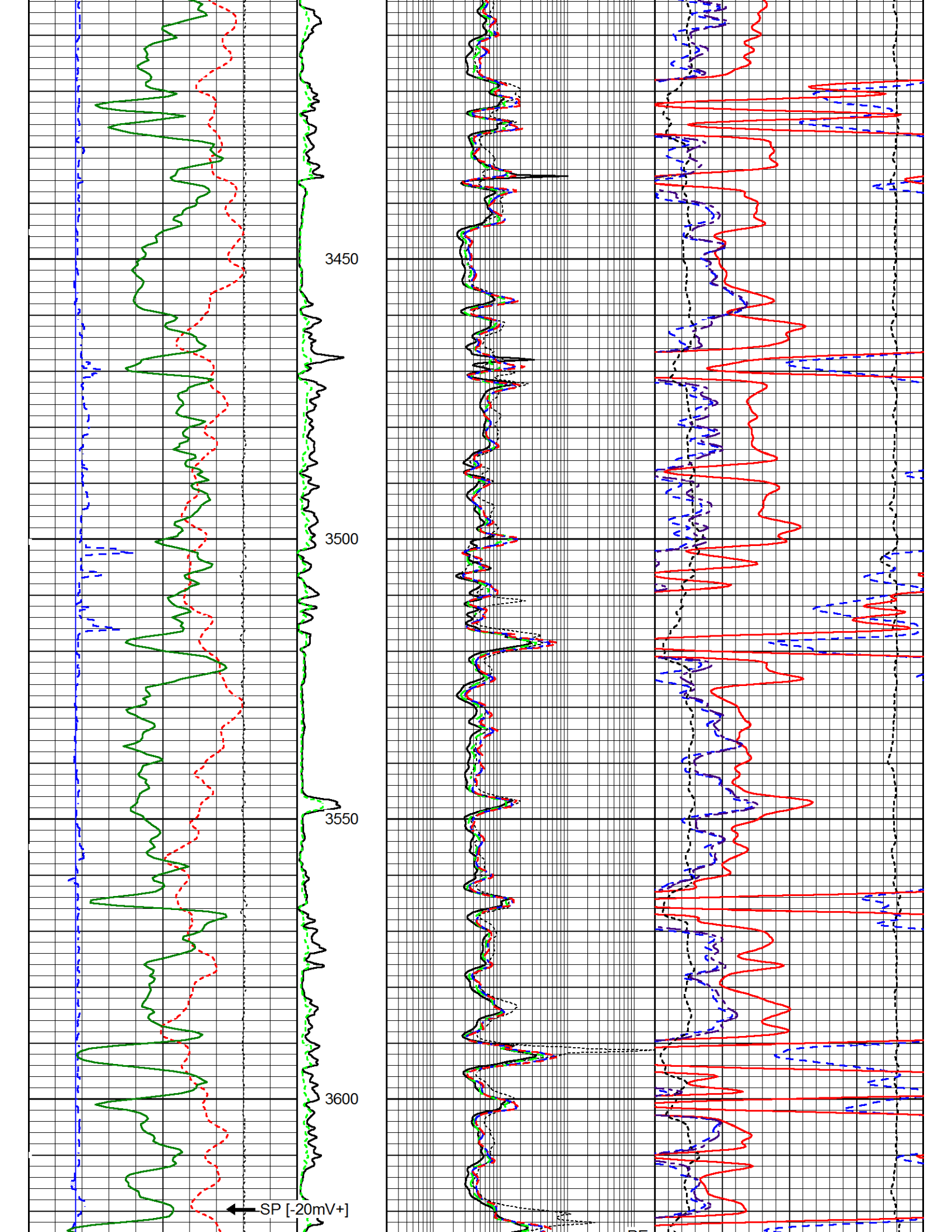
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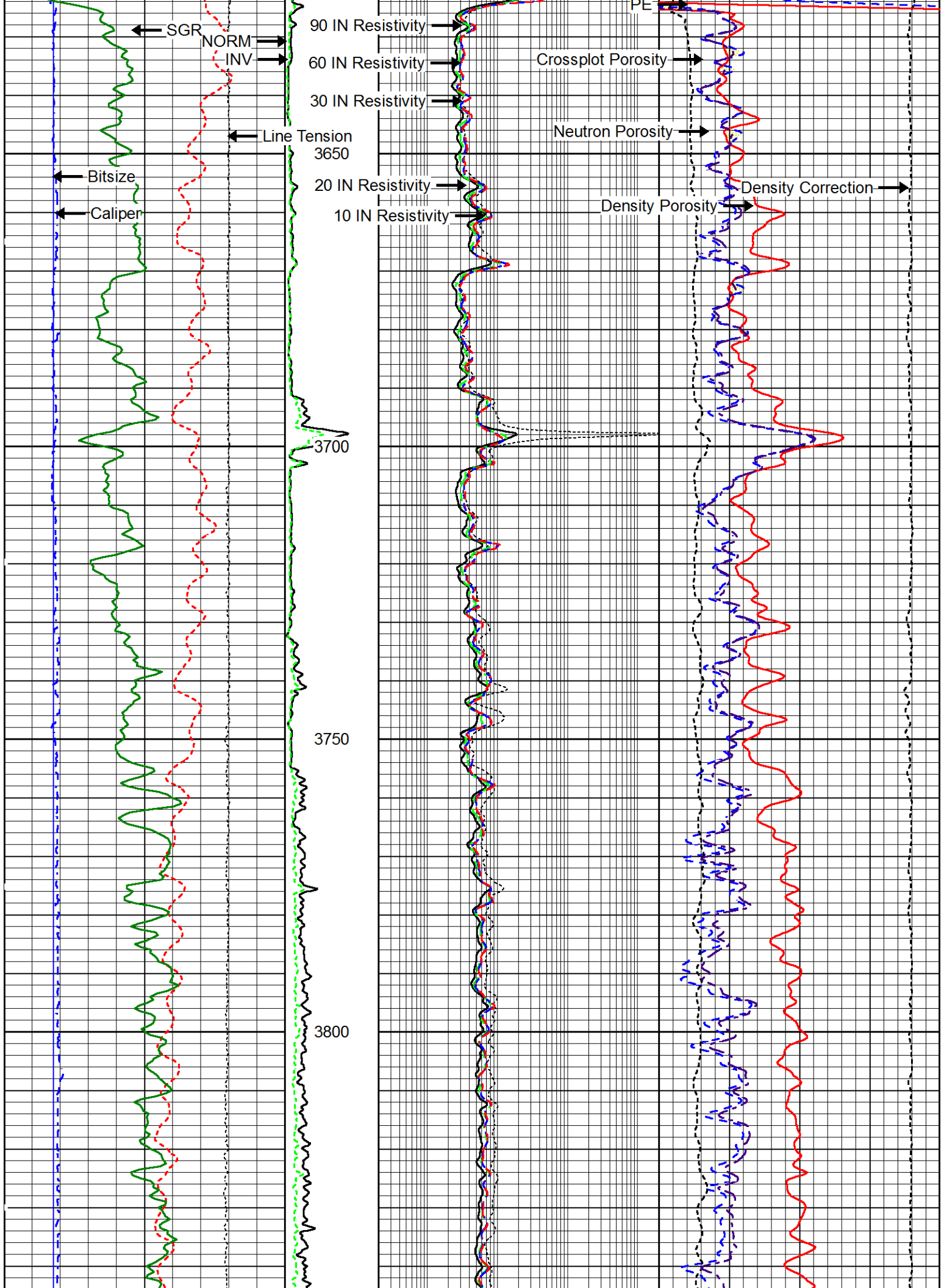
SGR
NORM
INV
Line Tension
Bitsize
Caliper
90 IN Resistivity
60 IN Resistivity
30 IN Resistivity
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10 IN Resistivity
PE
Crossplot Porosity
Neutron Porosity
Density Correction
Density Porosity
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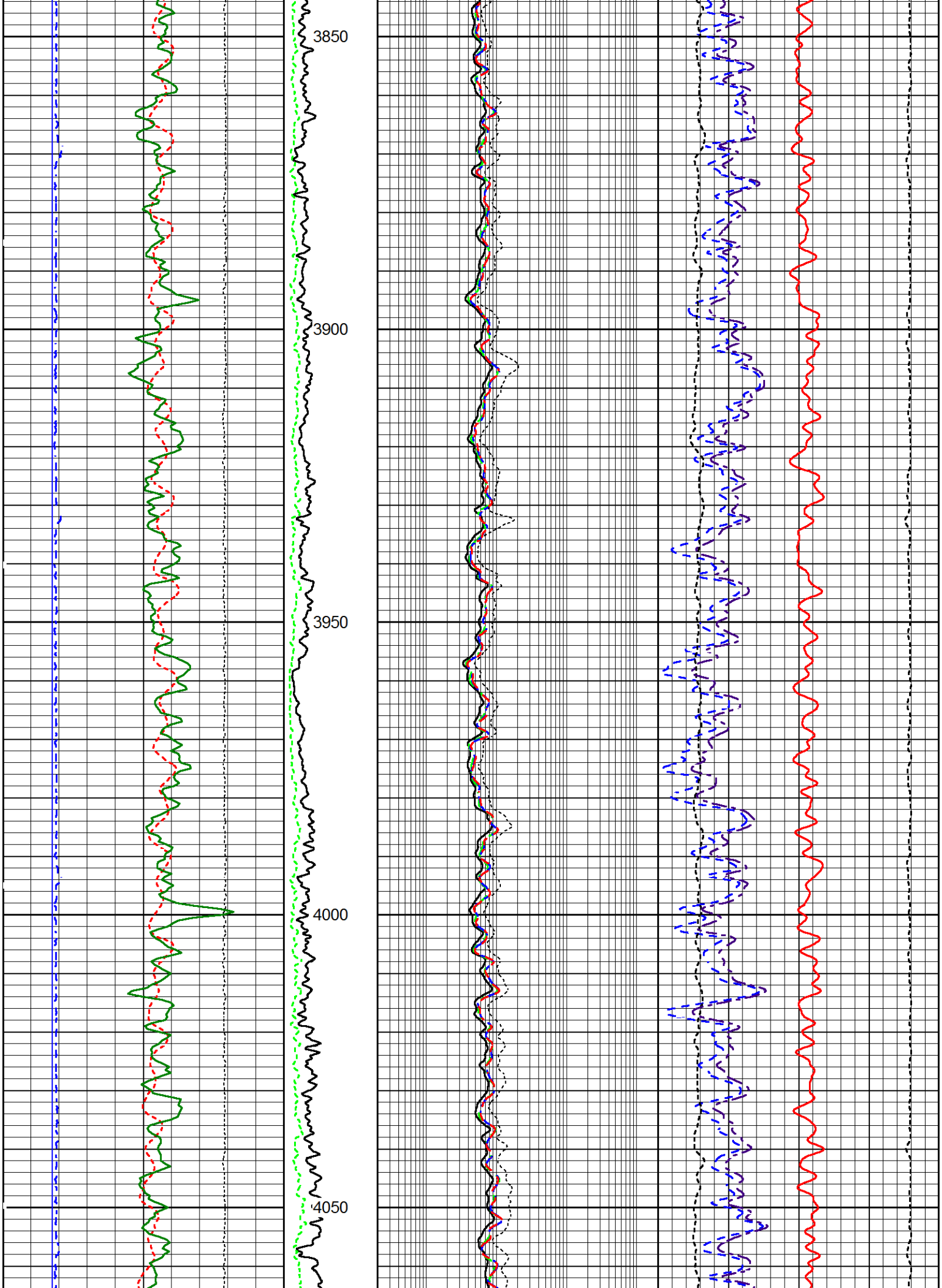
3800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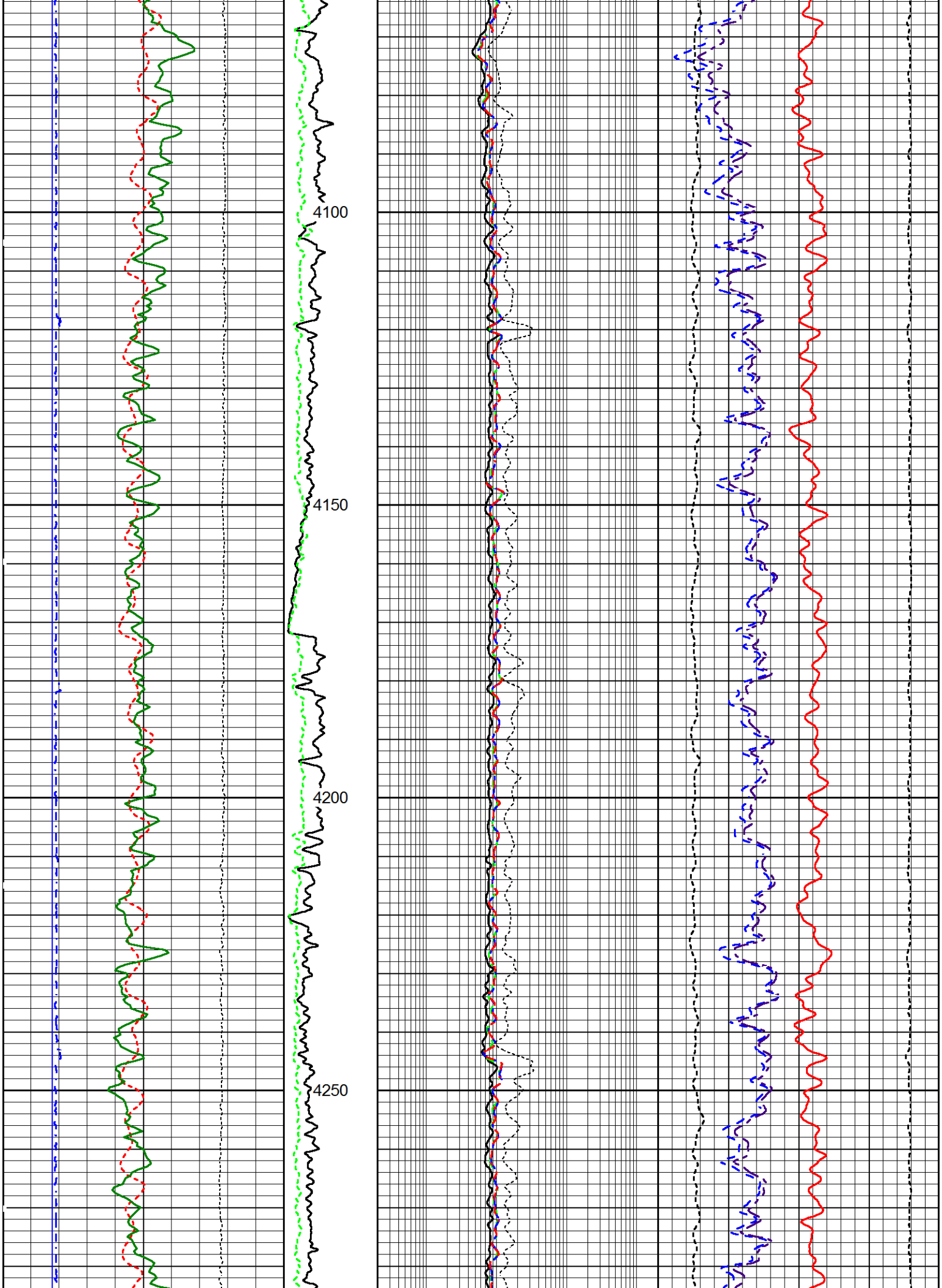
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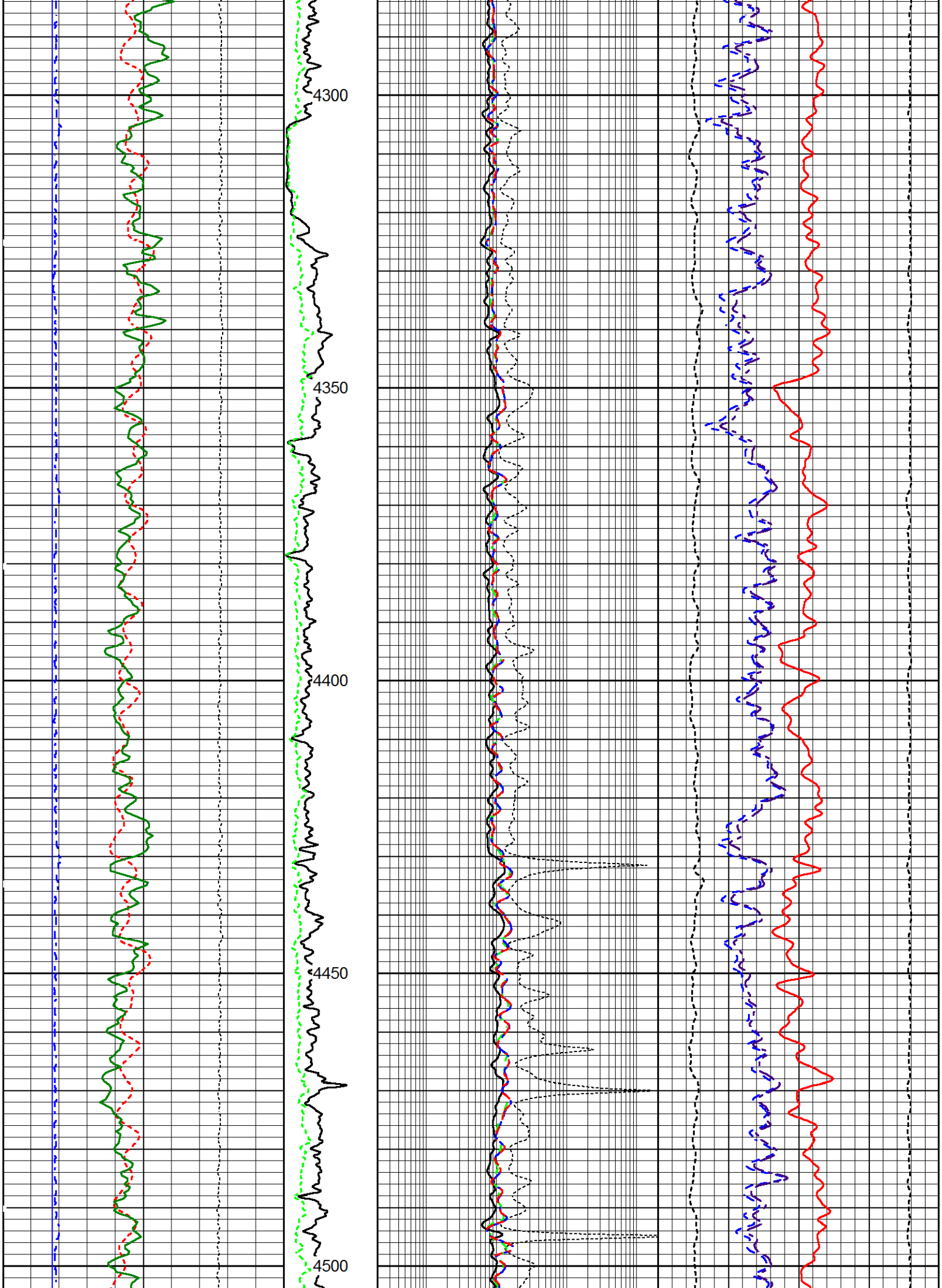
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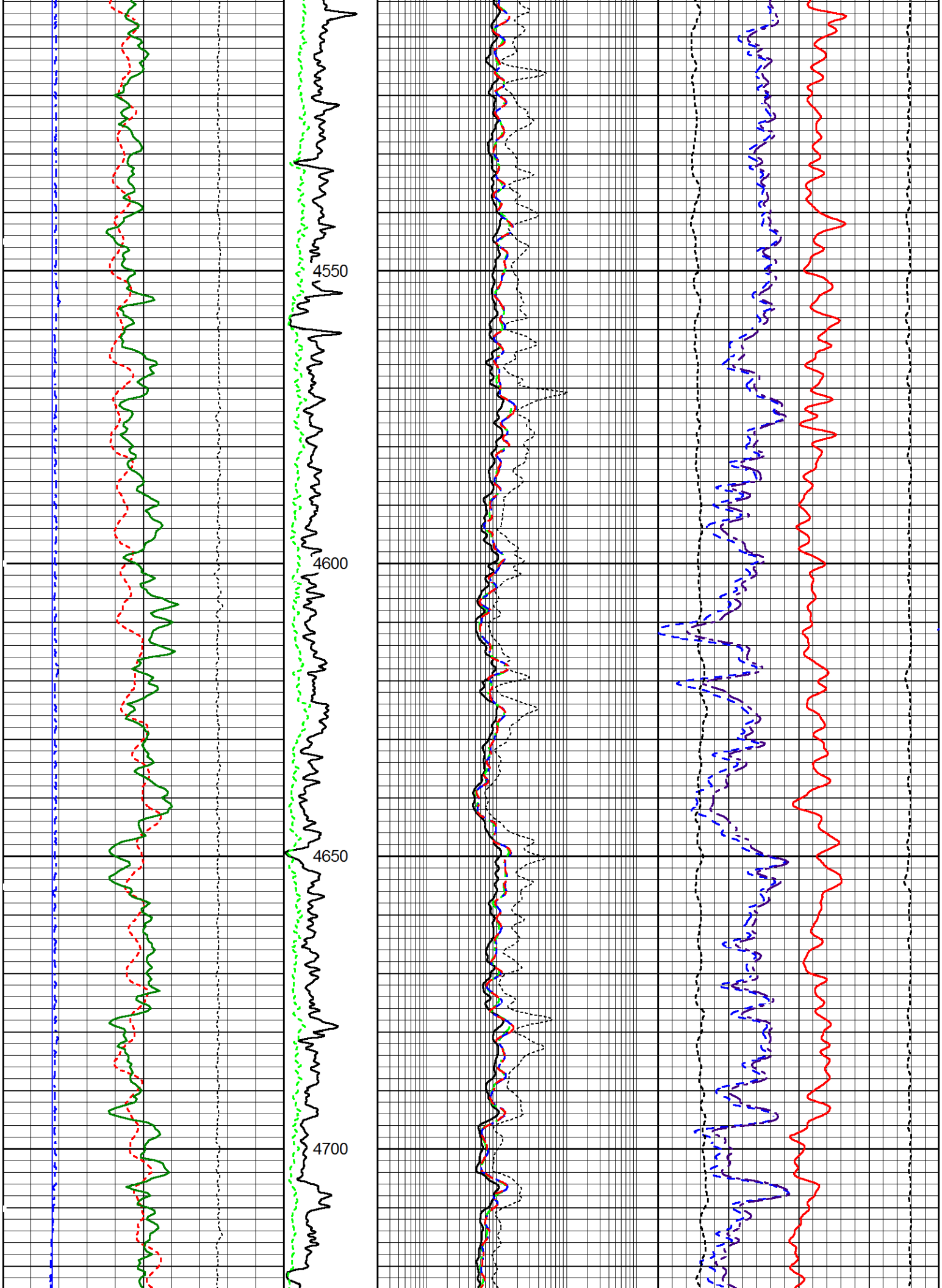
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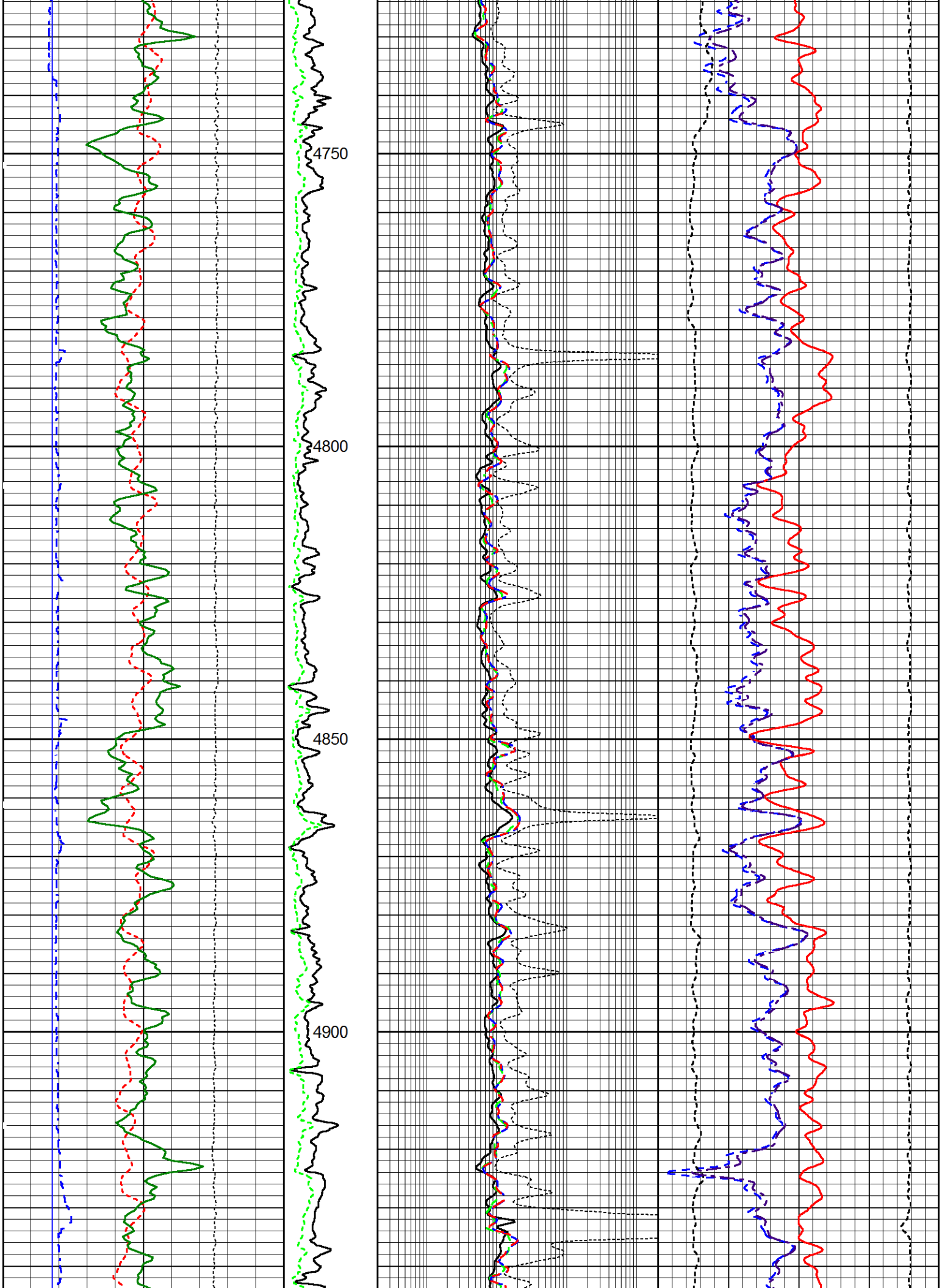
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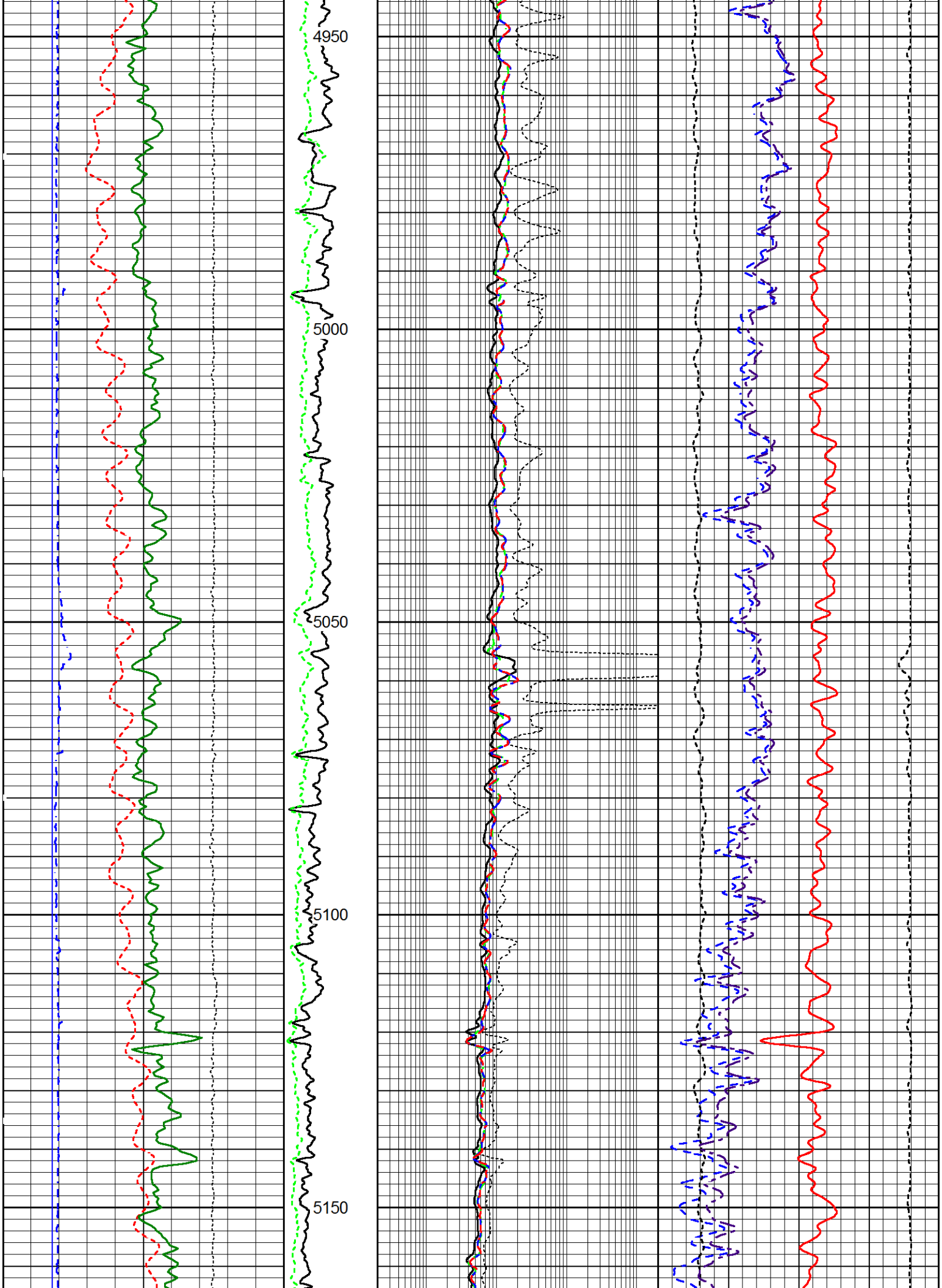
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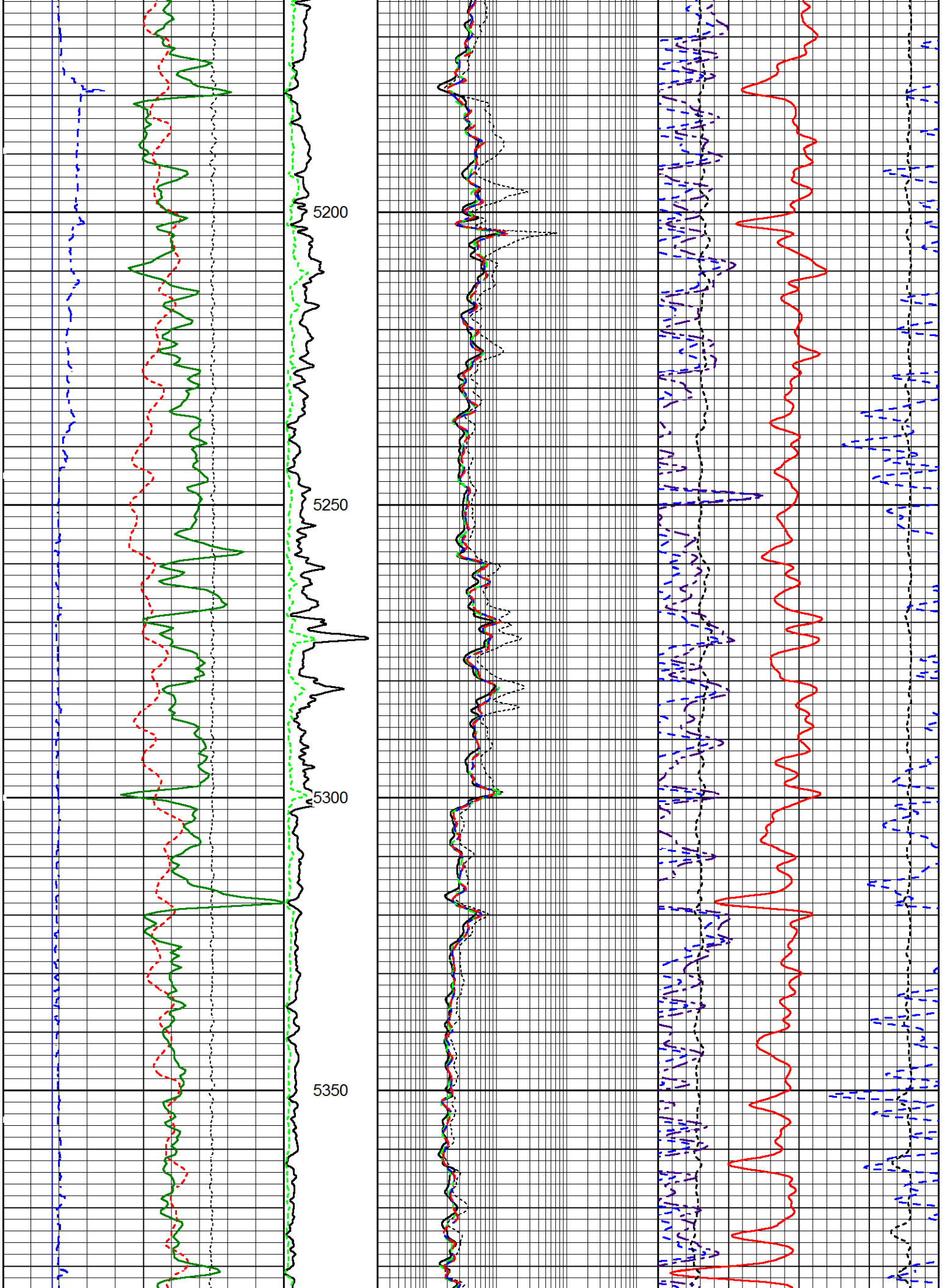
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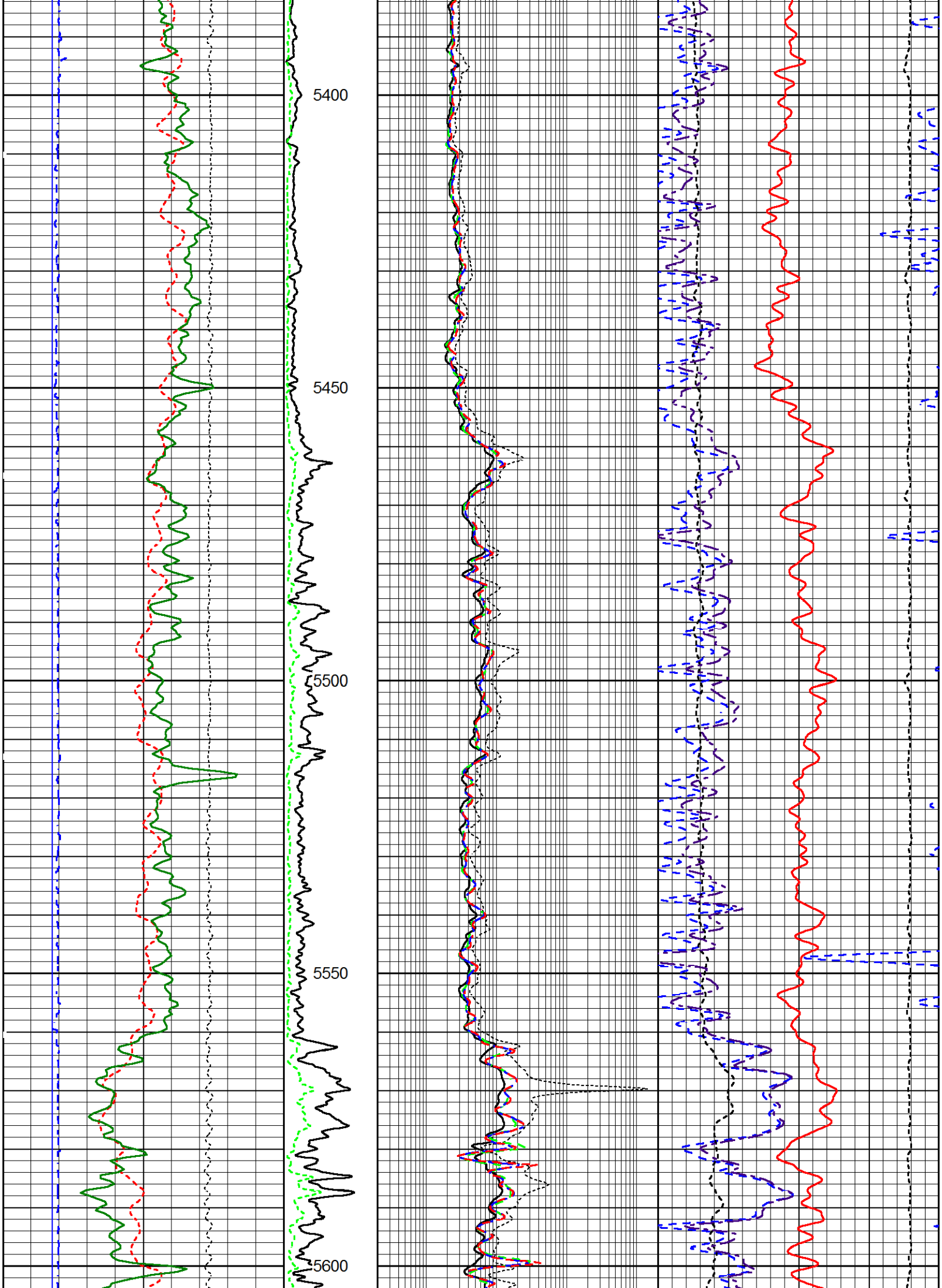
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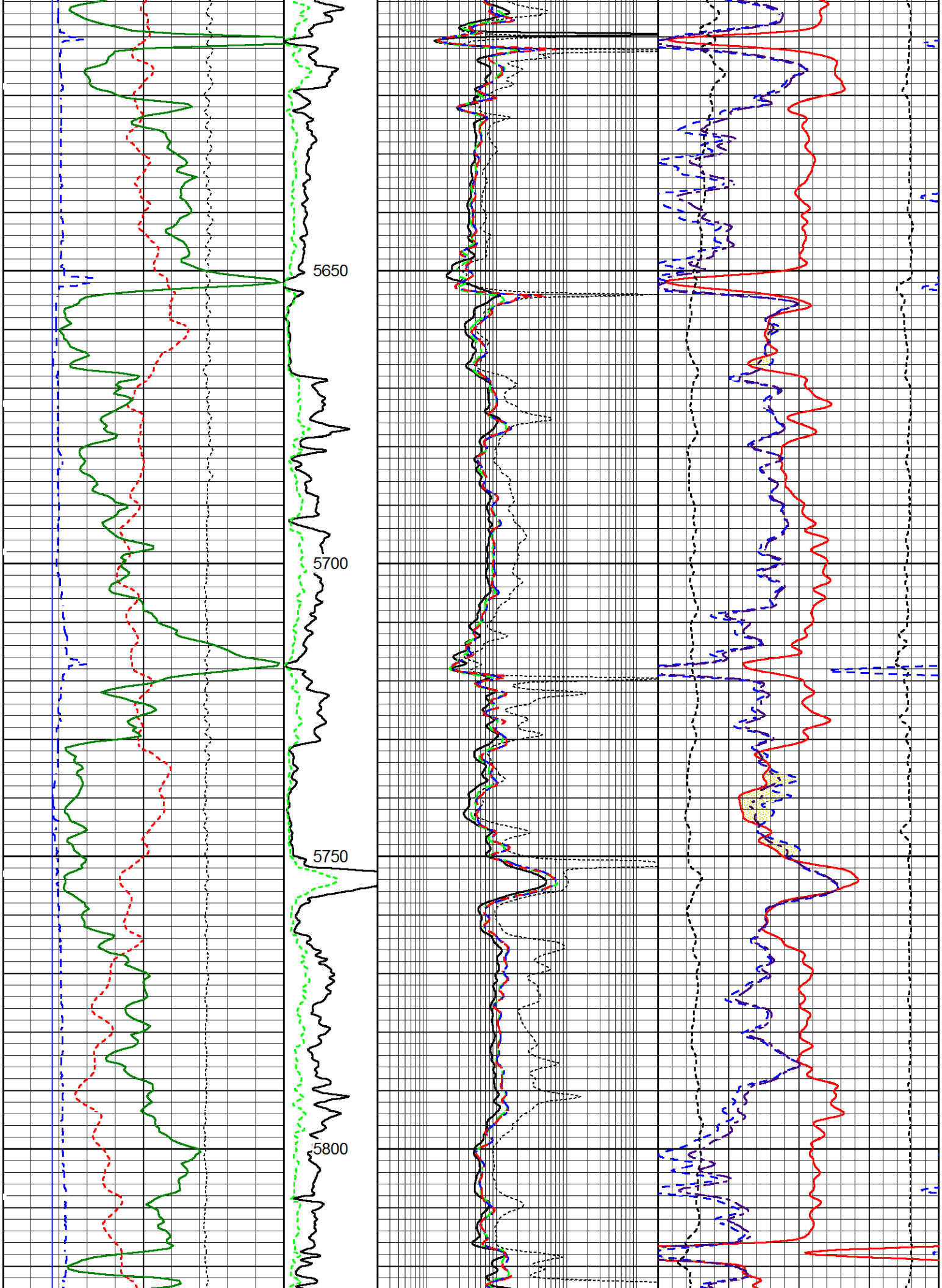
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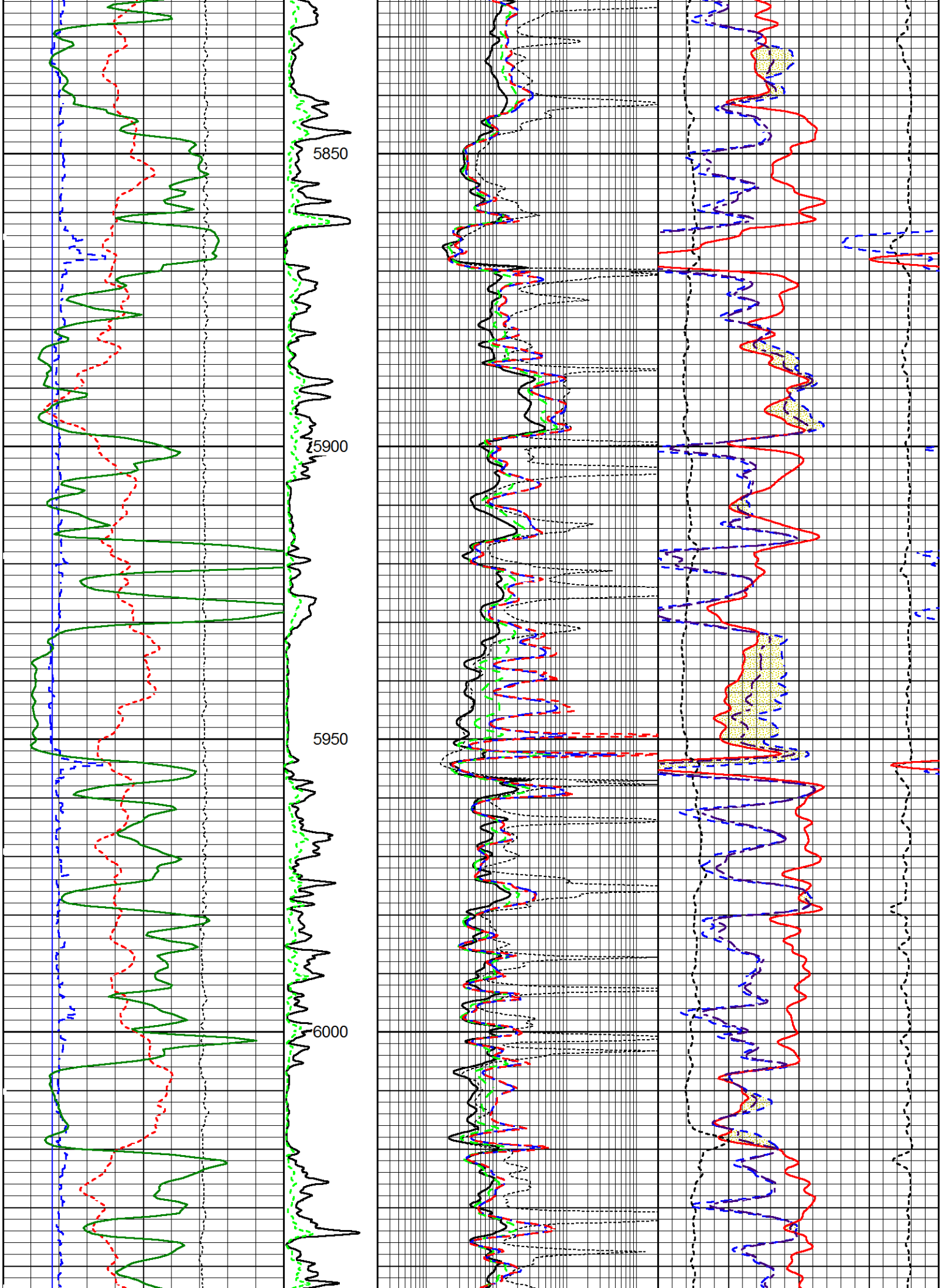
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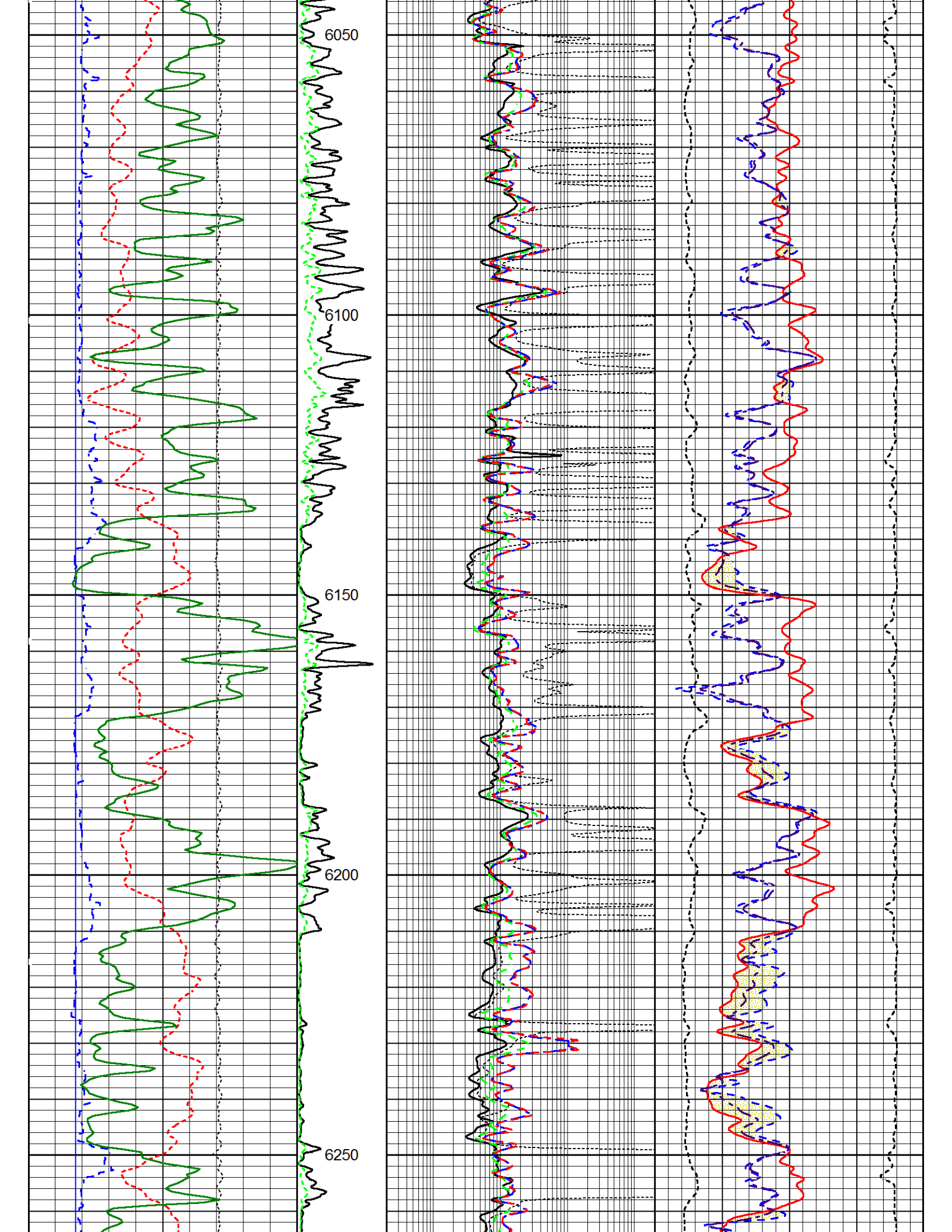
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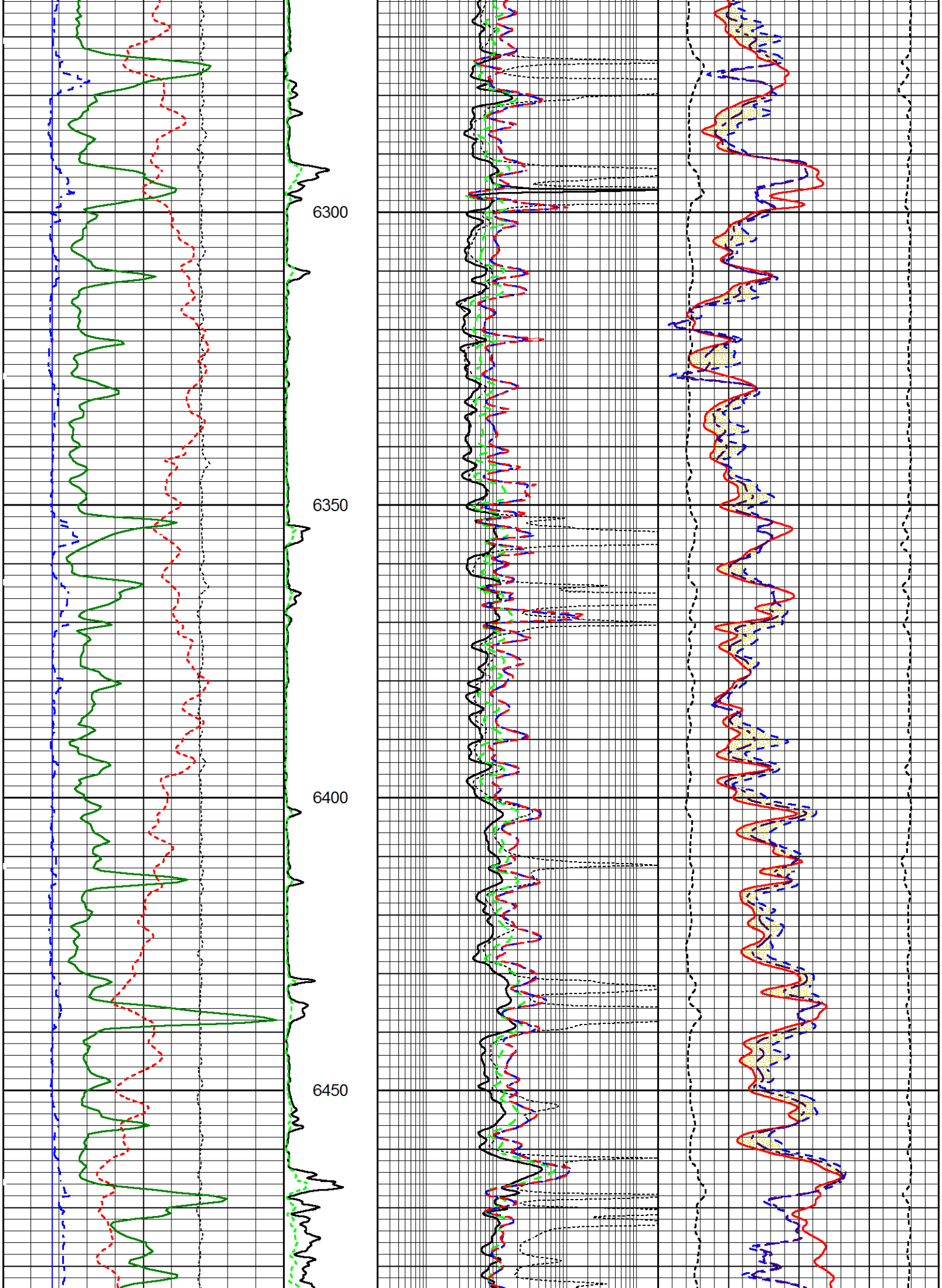
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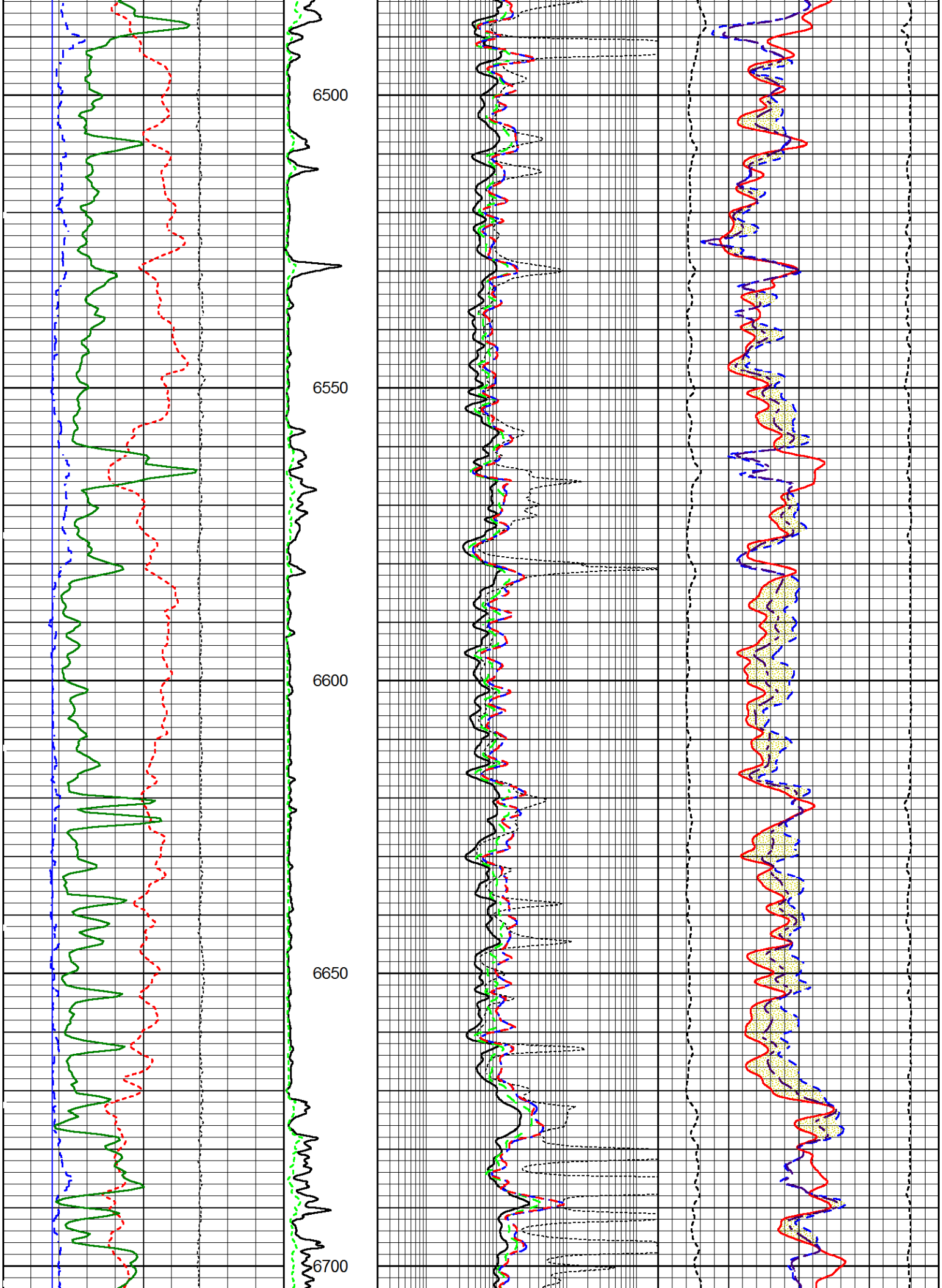
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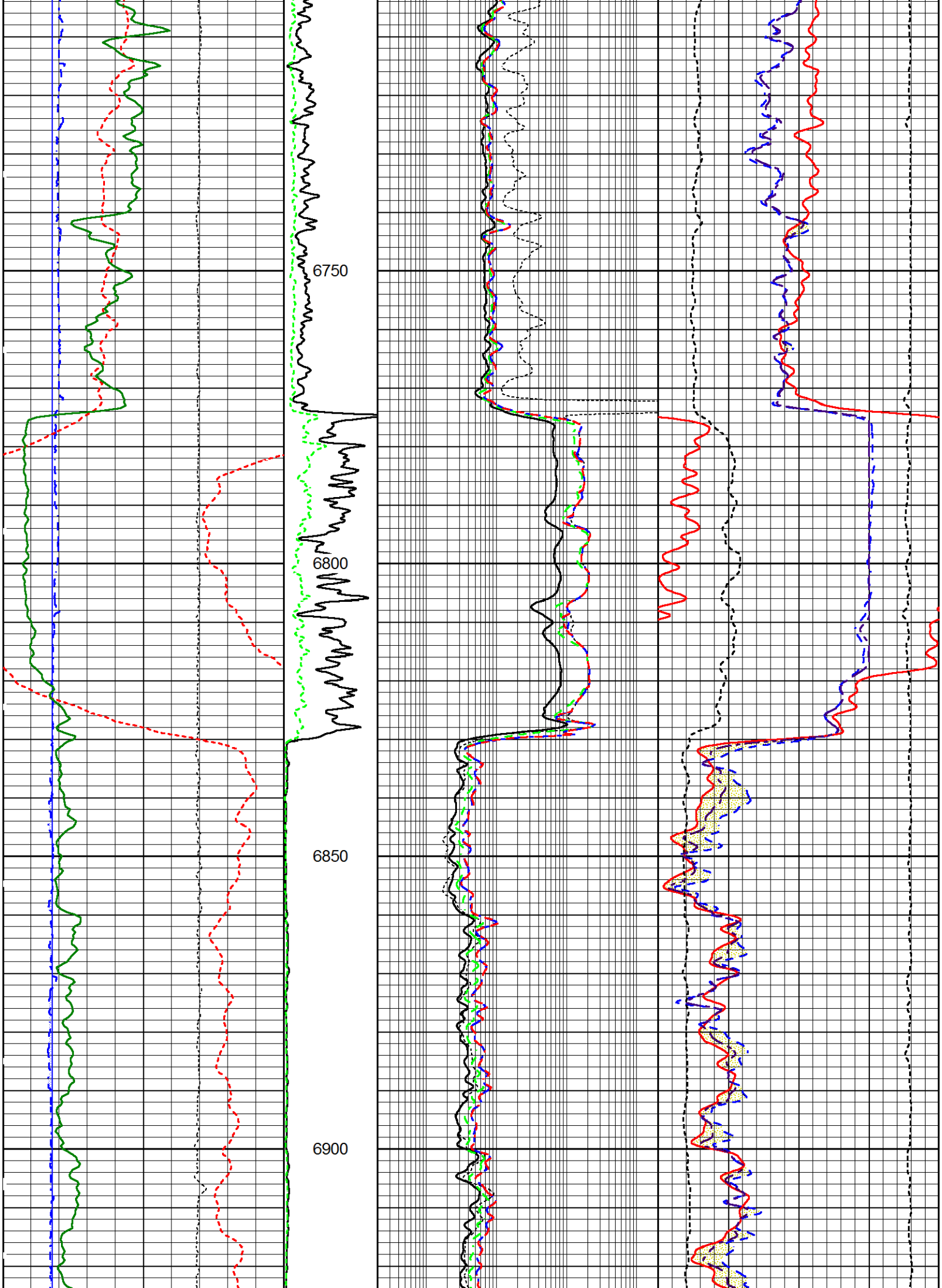
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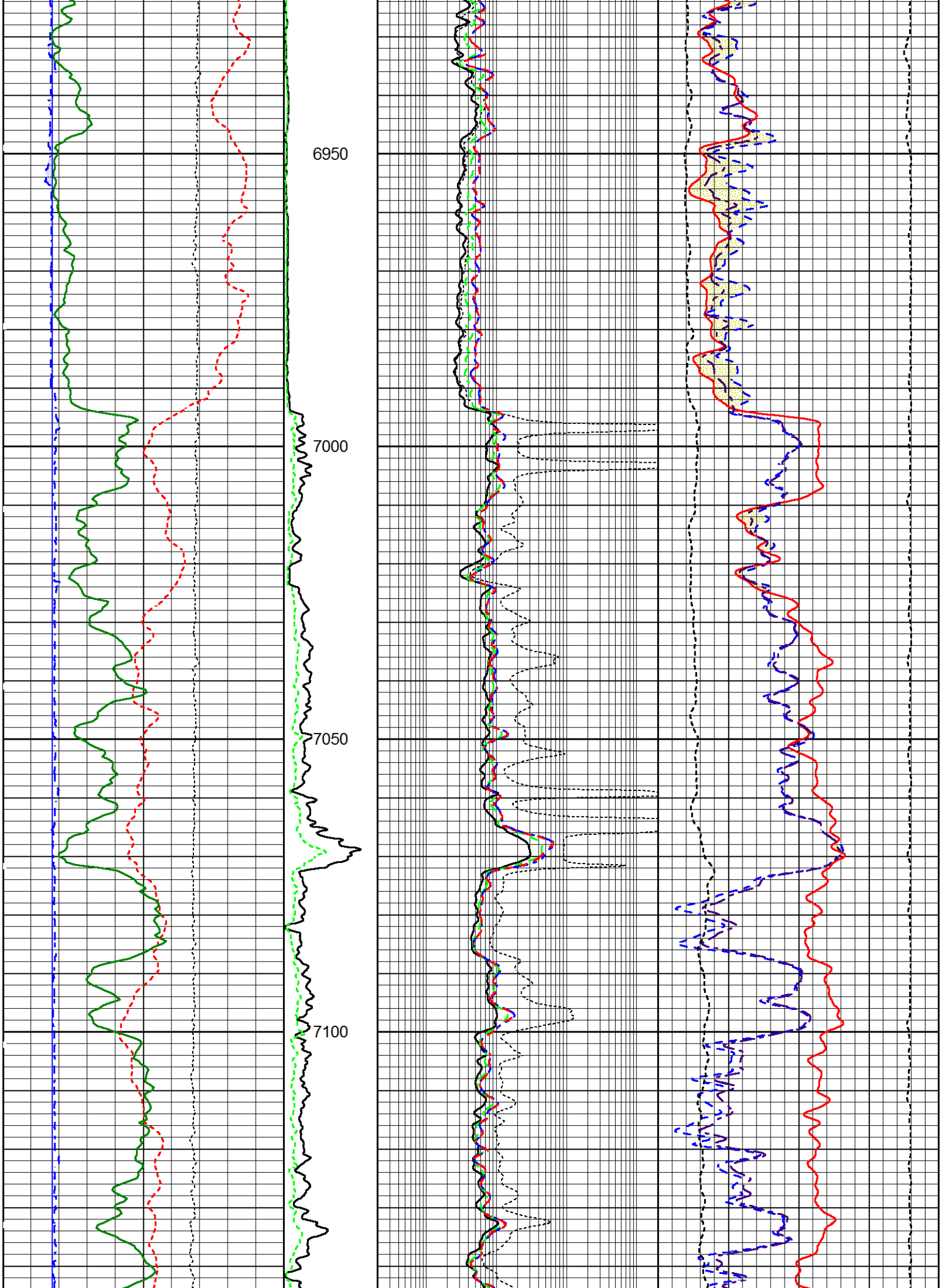
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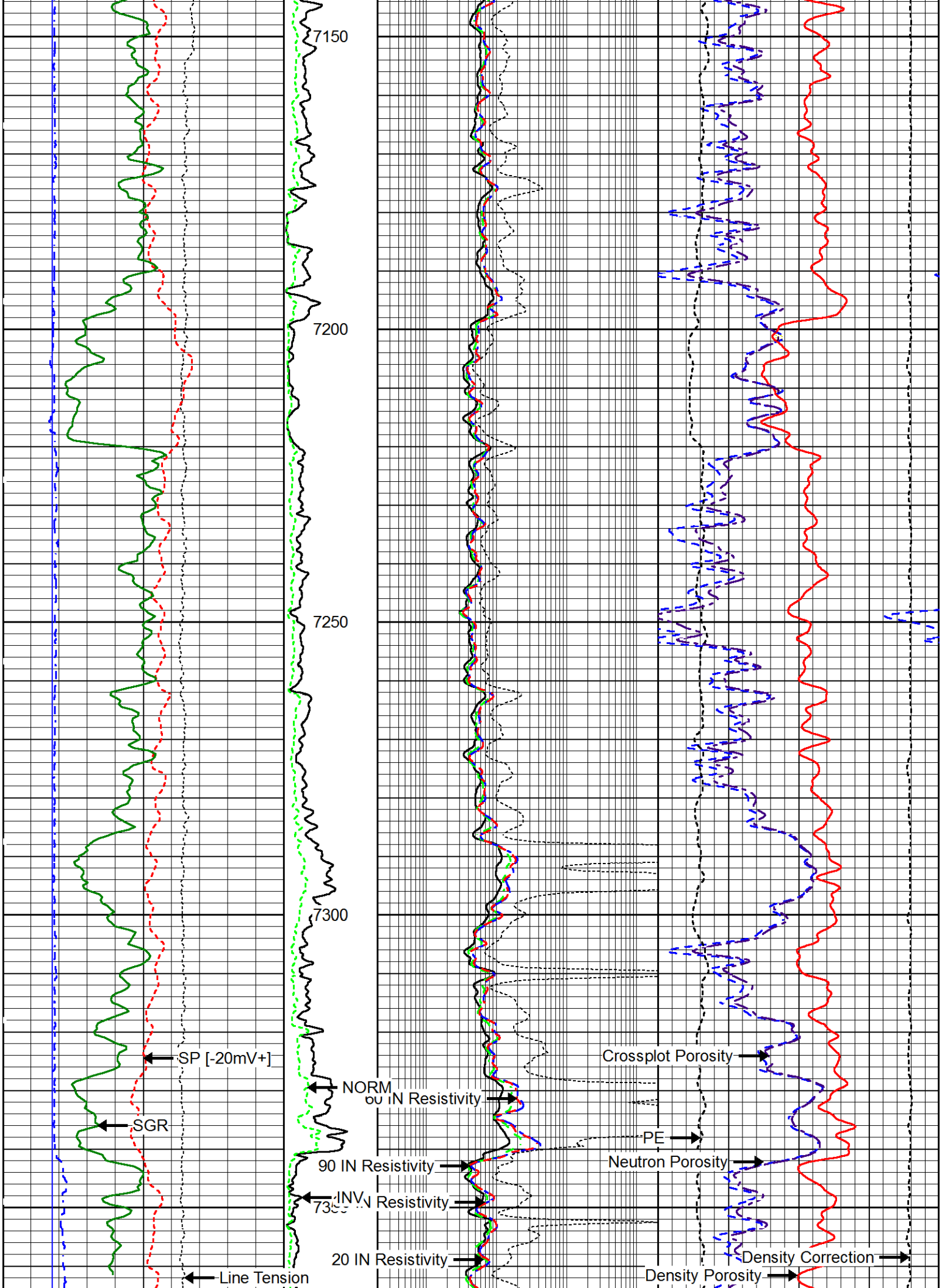
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7200
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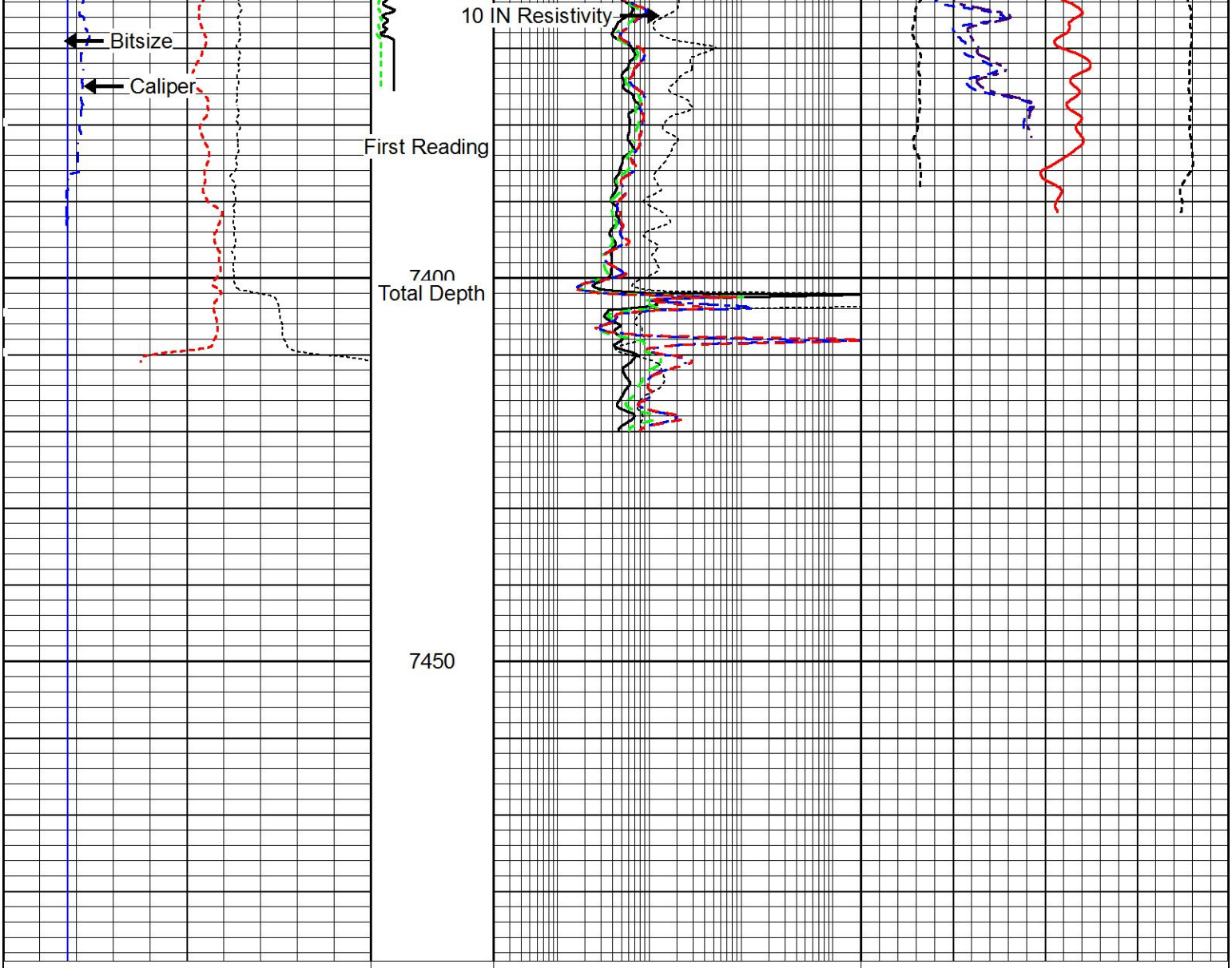
7300
SP [-20mV+]
SGR
Line Tension
NORM
90 IN Resistivity
INV
20 IN Resistivity
Crossplot Porosity
PE
Neutron Porosity
Density Correction
Density Porosity



7	Bitsize (in)	17	INV	0.2	10 IN Resistivity (Ohm-m)	2000	Neutron Porosity
7	Caliper (in)	17	(Ohm-m)	0.2	20 IN Resistivity (Ohm-m)	2000	0.3 (Porosity Decimal Fraction) -0.1
	SP [-20mV+]		0 20	0.2	30 IN Resistivity (Ohm-m)	2000	Density Porosity
0	SGR (GAPI)	200	NORM	0.2	60 IN Resistivity (Ohm-m)	2000	0.3 (Porosity Decimal Fraction) -0.1
	Line Tension		(Ohm-m)	0.2	90 IN Resistivity (Ohm-m)	2000	Crossplot Porosity
	5000 (lb)	0	0 20				0.3 (Porosity Decimal Fraction) -0.1
							0 PE 10 Density Correction
							0.8 (g/cc) -0.2

ALLIED HORIZONTAL WIRELINE SERVICES

Main Pass

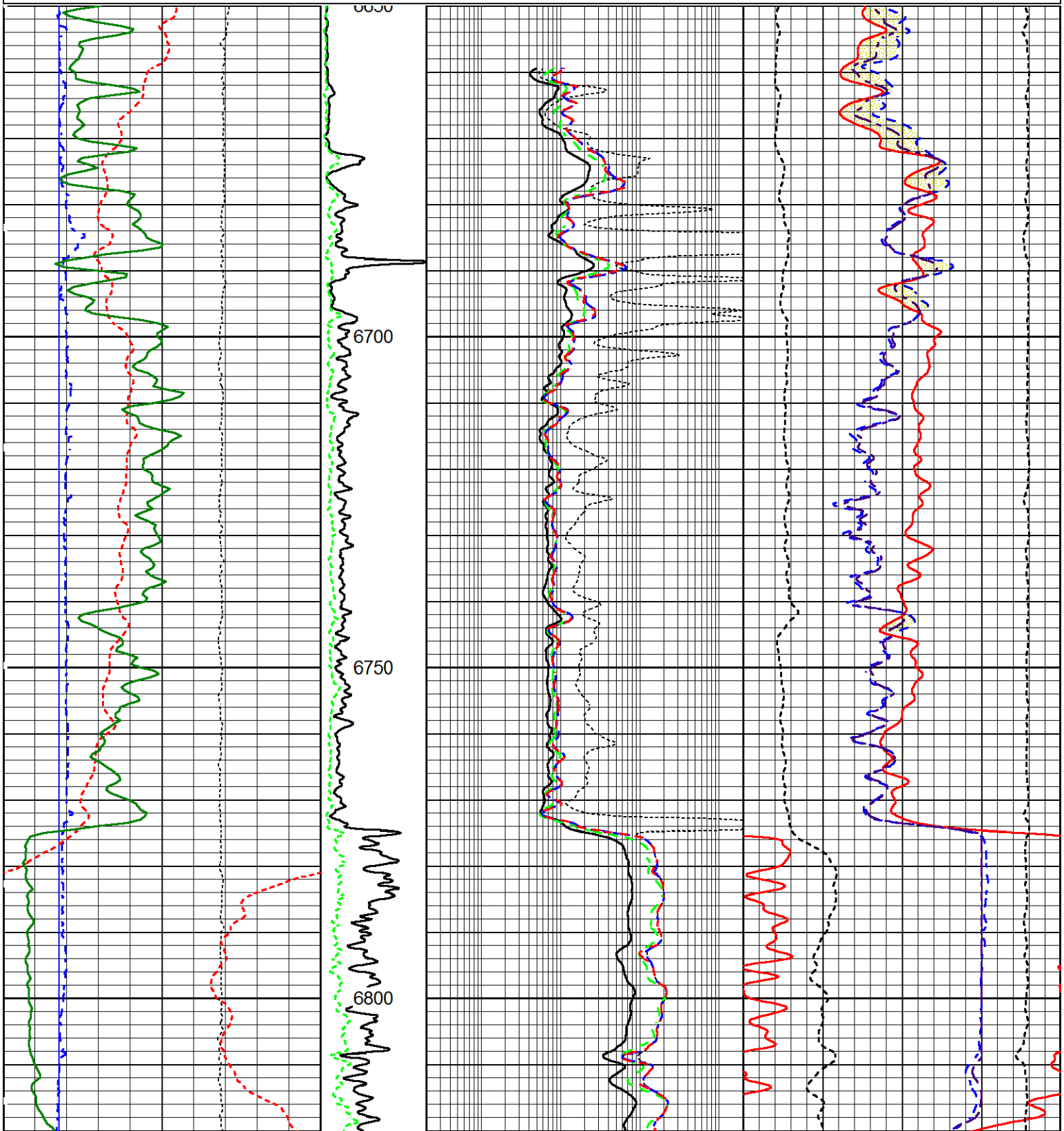
ALLIED HORIZONTAL WIRELINE SERVICES

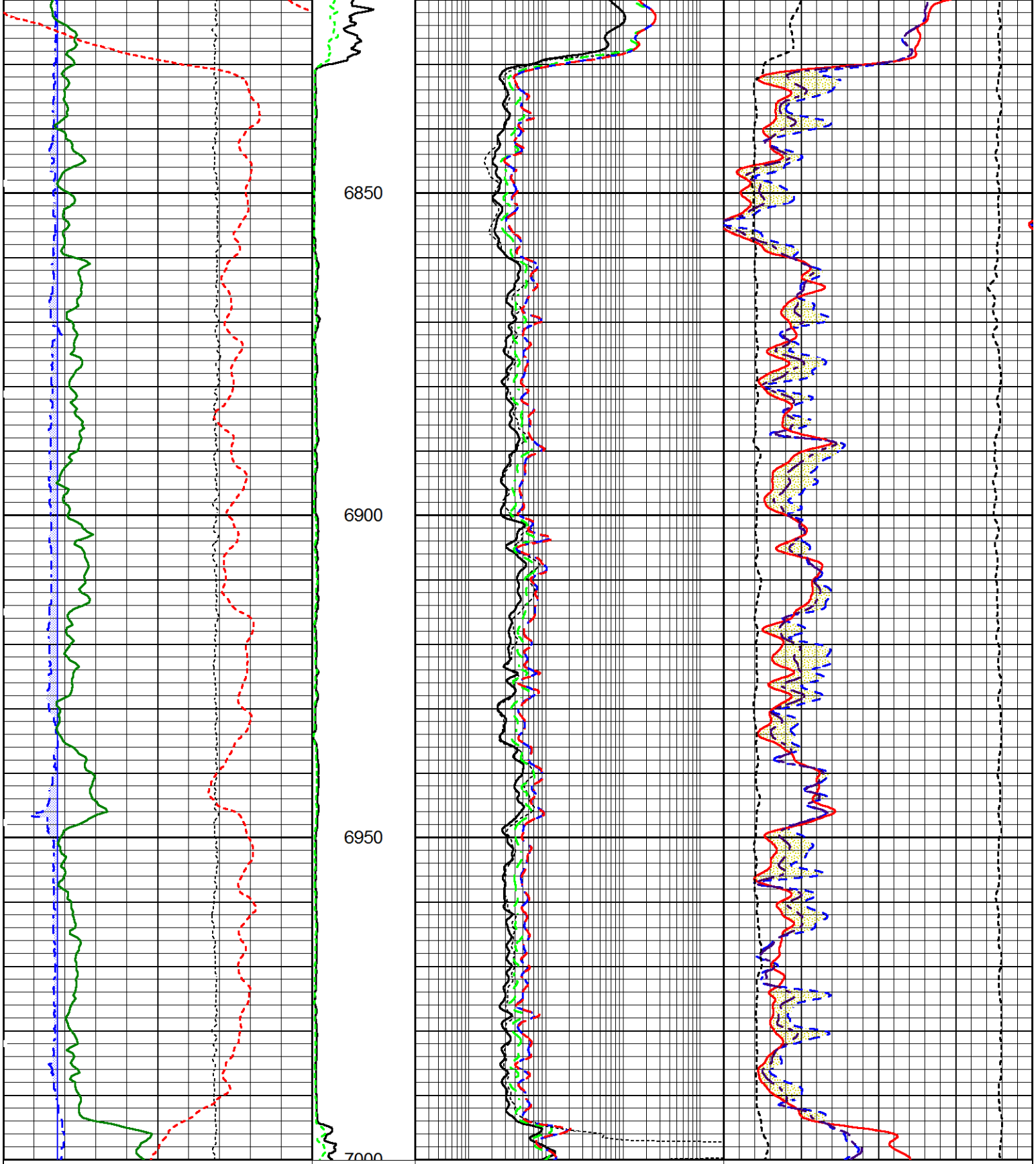
Repeat Pass

Database File	enduringreswlybrook.db
Dataset Pathname	West_Lybrook/well/run1/pass5
Presentation Format	3com_jat

Dataset Creation	Tue Jan 15 11:30:34 2019 by Log Sondex
Charted by	Depth in Feet scaled 1:240

7	Bitsize (in)	17	INV (Ohm-m) 0 20	0.2	10 IN Resistivity (Ohm-m)	2000	Neutron Porosity	
7	Caliper (in)	17		0.2	20 IN Resistivity (Ohm-m)	2000	0.3 (Porosity Decimal Fraction)	-0.1
	SP [-20mV+]			0.2	30 IN Resistivity (Ohm-m)	2000	Density Porosity	
0	SGR (GAPI)	200	NORM (Ohm-m) 0 20	0.2	60 IN Resistivity (Ohm-m)	2000	0.3 (Porosity Decimal Fraction)	-0.1
	Line Tension			0.2	90 IN Resistivity (Ohm-m)	2000	Crossplot Porosity	
5000	(lb)	0					0.3 (Porosity Decimal Fraction)	-0.1
							0 PE 10	Density Correction
								0.8 (g/cc) -0.2





7 Bitsize (in) 17	INV (Ohm-m) 0 20	0.2 10 IN Resistivity (Ohm-m) 2000
7 Caliper (in) 17		0.2 20 IN Resistivity (Ohm-m) 2000
SP [-20mV+]		0.2 30 IN Resistivity (Ohm-m) 2000
0 SGR (GAPI) 200	NORM (Ohm-m) 0 20	0.2 60 IN Resistivity (Ohm-m) 2000
Line Tension 5000 (lb) 0		0.2 90 IN Resistivity (Ohm-m) 2000

Neutron Porosity	
0.3 (Porosity Decimal Fraction) -0.1	
Density Porosity	
0.3 (Porosity Decimal Fraction) -0.1	
Crossplot Porosity	
0.3 (Porosity Decimal Fraction) -0.1	
0 PE 10	Density Correction
	0.8 (g/cc) -0.2

ALLIED HORIZONTAL WIRELINE SERVICES

Repeat Pass

Log Variables

Database C:\Sondex\Sondex Warrior\Data\enduringreswlybrook.db
Dataset West_Lybrook/well/run1/main/_vars_

Top - 417.97 ft

AIR_HOLE?	BOREID in	BOTTEMP degF	CASED?	CASEOD in	CASETHCK in	CASEWGHT lb/ft	DE-CENT
No	14.5	149	Yes	13.375	0	40	Yes

DEVI deg	FLUIDDEN g/cc	FRMSALIN kppm	MATRXDEN g/cc	MUDSALIN kppm	MudWgt lb/gal	NPORSEL	PERFS
0	1	0	2.71	0	9.4	Limestone	0

SO in	SPSHIFT mV	SRFTEMP degF	TDEPTH ft
0.5	0	68	7408

417.97 ft - Bottom

AIR_HOLE?	**BOREID in**	BOTTEMP degF	**CASED?**	**CASEOD in**	CASETHCK in	**CASEWGHT lb/ft**	DE-CENT
No	**8.75**	149	**No**	**7**	0	**26**	Yes

DEVI deg	FLUIDDEN g/cc	FRMSALIN kppm	MATRXDEN g/cc	MUDSALIN kppm	MudWgt lb/gal	NPORSEL	PERFS
0	1	0	2.71	0	9.4	Limestone	0

SO in	SPSHIFT mV	SRFTEMP degF	TDEPTH ft
0.5	0	68	7408

Calibration Report

Database File	enduringreswlybrook.db
Dataset Pathname	West_Lybrook/well/run1/pass5
Dataset Creation	Tue Jan 15 11:30:34 2019 by Log Sondex

Induction Array Tool Calibration Report

Serial Number:	B10110
Tool Model:	002
Master Calibration Performed:	Fri Oct 26 15:32:33 2018
Temperature:	94.8 degF

Sonde Error:

Array	1	2	3	4	5	6	7	
Real	192.0	-12.7	-40.5	-15.0	-2.0	2.3	2.9	mmho/m
Imaginary	-18.2	5.6	-8.9	-11.8	-22.5	-1.2	5.1	mmho/m

Loop Gain:

Array	1	2	3	4	5	6	7	
Loop (real)	537.7	678.5	1295.3	1394.1	1144.8	712.8	404.8	mmho/m
Loop (imaginary)	73.3	92.5	389.8	419.5	344.5	214.5	121.8	mmho/m
Real	754.6	727.3	1235.4	1365.6	1152.8	736.4	421.2	mmho/m
Imaginary	57.5	104.4	378.7	408.4	324.7	218.8	133.9	mmho/m

Gain (real)	0.956	0.917	1.015	1.010	0.991	0.971	0.968
Gain (imaginary)	0.967	0.936	1.006	0.998	0.992	0.975	0.945

Before Survey Verification Performed: Tue Jan 15 07:30:10 2019
Sonde 1 Temperature: 91.3 degF
Sonde 2 Temperature: 93.3 degF
Array 1 Temperature: 93.3 degF

Array	1	2	3	4	5	6	7
TxIR	0.0	0.0	-0.1	-0.1	-0.1	-0.1	-0.1
TxIX	0.0	0.0	0.2	0.2	0.2	0.2	0.2
Tx Magnitude	0.0	0.0	0.2	0.2	0.2	0.2	0.2
Gain	112.1	152.3	146.9	151.0	151.8	159.4	167.5
RxCR	-0.0	-0.0	-0.0	-0.0	-0.0	-0.0	-0.0
RxCX	0.1	0.1	0.1	0.1	0.1	0.1	0.1
RxC Magnitude	0.1	0.1	0.1	0.1	0.1	0.1	0.1

Tool Module Parameters

Software Version: 8.0.0.4
Borehole Size Source: CALI
Mud Resistivity Source: MUDRES
Mud Resistivity At Surface: N/A
Mud Resistivity Surface Temperature: N/A
Borehole Corrections: Automatic
Minimum Standoff: 0.4 in

Litho Density Tool Calibration Report

Serial Number: B0872S70997B
Tool Model: B10872

Caliper Calibration Performed: Mon Jan 07 16:48:54 2019

	Diameter		Reading	
Small Ring:	9.000	in	1709.800	cps
Large Ring:	13.000	in	2058.300	cps

Gain: 0.0115
Offset: -10.6247

Master Calibration Performed: Mon Jan 07 16:27:47 2019

Source Number: 70997B
Medium: Water
Al Block Density: 2.6002 g/cc

	Background	Al Block	Al Block + Fe	
SS1	677.4	4467.7	3791.9	cps
SS2	1927.0	30904.2	26367.3	cps
SSTOTAL	4505.5	49338.8	41684.1	cps
LITH	96.2	509.0	303.4	cps
LL	188.4	862.2	753.9	cps
LU	542.8	1119.9	1033.7	cps
LS	731.2	1982.1	1787.6	cps
LSTOTAL	1379.4	4808.5	3883.4	cps
SSHV	1468.8	1474.0	1474.3	V
LSHV	1414.7	1419.6	1421.4	V
SSFF	-0.011	0.005	0.006	
LSFF	0.005	0.002	-0.007	

Before Survey Verification Performed: Tue Jan 15 07:00:24 2019
After Survey Verification Performed: Tue Jan 15 15:30:24 2019

	Master Background	Before Survey Background	After Survey Background	
SS1	677.4	692.2	690.2	cps
SS2	1927.0	1946.8	1946.4	cps
SSTOTAL	4505.5	4577.9	4562.5	cps
LITH	96.2	98.4	95.6	cps
LL	188.4	188.2	186.7	cps
LU	542.8	548.0	551.3	cps
LS	731.2	736.1	738.0	cps
LSTOTAL	1379.4	1392.8	1389.2	cps
SSHV	1468.8	1461.4	1461.7	V
LSHV	1414.7	1407.4	1407.9	V
SSFF	-0.011	0.007	-0.014	
LSFF	0.005	0.016	0.003	

Tool Module Parameters

Software Version:	8.0.0.6
Borehole Size Source:	CALI
Pad Type:	2

Compensated Neutron Tool Calibration Report

Serial Number:	C2541S59796G
Tool Model:	009

Master Calibration Performed:	Thu Jan 03 15:00:01 2019	
Source Number:	59796G	
Short Spacing Counts:	4187.83	cps
Long Spacing Counts:	156.76	cps
High Voltage:	1367.67	V
Target Ratio:	26.6600	
Ratio:	26.7144	
K-Factor:	0.9980	

Before Survey Verification Performed:
After Survey Verification Performed:

Verifier Number: 6490NN

Verifier Values	Master Cal	Before Survey	After Survey	
Short Spacing Counts:	247.78			cps
Long Spacing Counts:	253.81			cps
High Voltage:	1367.62			V
Ratio:	0.9762			

Tool Module Parameters

Software Version:	8.0.0.5			
Borehole Size Source:	CALI			
Clip Crossplot Porosity:	YES			
Lithology Identification Parameters:				
	Calcite	Quartz	Dolomite	
Uma:	13.77	4.79	9.03	barns/cc
RHOma:	2.71	2.65	2.88	g/cc

Micro Electric Log Calibration Report

Serial Number:	002220331
Tool Model:	001

Caliper Calibration Performed:	Thu Jan 10 10:00:24 2019

Caliper Calibration Performed: Thu Jan 10 10:00:24 2019

	Pad Arm Radius		Pad Arm Reading	Backup Arm Radius		Backup Arm Reading
Small Jig:	4.000	in	1353.200	4.000	in	1365.300
Large Jig:	6.000	in	1402.600	6.000	in	1410.500
Gain:			0.0405			0.0442
Offset:			-50.7854			-56.4115

Pad Calibration

	Inverse	Normal
Gain:	1.0000	1.0000
Offset:	0.0000	0.0000

Tool Module Parameters

Software Version: 8.0.0.4

Borehole Fluid Resistivity Calibration Report

Serial Number: 000001
Tool Model: 001

Master Calibration Performed: Thu Sep 16 10:07:52 2010

Resistivity Polynomial Equation:

$$0.2530x^2 + 0.5610x + 0.0310$$

Temperature Calibration:

Reference		Reading	
53.60	degF	846.40	bits
107.42	degF	919.20	bits

Spectral Gamma Ray Calibration Report

Serial Number: 10012700
Tool Model: 003

Performed: Thu Jan 10 12:00:24 2019

Source Number: #14
Calibrator Value: 207.0 API

Background Reading: 151.7 cps
Calibrator Reading: 1681.1 cps

Sensitivity: 0.135 API / cps

Perfomed: Fri Jan 11 11:30:32 2019

Verifier Number: 571

	K %	U ppm	T ppm
Concentrations	5.4	6.9	25.3

K Peak: Passed
U Peak:
T Peak:

Before Survey Verification Performed: Tue Jan 15 07:15:24 2019
After Survey Verification Performed: Tue Jan 15 15:35:24 2019

	Before Survey	After Survey	
Background Reading:	154.5	152.8	cps
Verifier Reading:	1207.5	1184.5	cps

K Peak:	Passed	Passed
U Peak:	Passed	Passed
T Peak:	Passed	Passed

Tool Module Parameters

Software Version:	8.0.0.5
Borehole Correction:	No
Stand Off:	N/A
Mud Type:	N/A
Borehole Size Source:	N/A

Sensor	Offset (ft)	Schematic	Description	Length (ft)	O.D. (in)	Weight (lb
CHD	53.66		CHD-001 (10012297) Cable Head	2.19	3.38	35.00
			XTU-008 (C10001400) Crossover Ultrawire Toolbus to Ultralink	2.08	3.38	47.00
SGR	46.32		SGR-003 (10012700) Spectral Gamma Ray Tool	4.94	3.88	120.00
BFR	42.65		BFR-001 (000001) Borehole Fluid Resitivity	3.80	3.38	75.00
Overbody	38.20		Overbody-Over-cen Overbody Centralizer	3.00	3.38	10.00
			MEL-001 (002220331) Micro Electric Log	9.17	3.38	190.00
MEL	33.28					
KJT	31.49		KJT-001 (10010515) Knuckle Joint	2.86	3.38	72.00
CNLSC	25.59		CNL-009 (C2541S59796G) Compensated Neutron Logging Tool	5.28	3.38	100.00
CNSSC	25.09					
			LDT-B10872 (B0872S70997B) Litho Density Tool	9.75	4.50	310.00
LDT	15.44					
IAT	8.44					

			IAT-002 (B10110) Induction Array Tool	13.22	3.88	196.00
SP	0.43					
BN	0.38		BN-SOFF (000001) Bottom Nose Standoff	0.38	6.88	6.00

Dataset: enduringreswlybrook.db: West_Lybrook/well/run1/main
Total length: 53.66 ft
Total weight: 1161.00 lb
O.D.: 6.88 in

ALLIED HORIZONTAL WIRELINE SERVICES

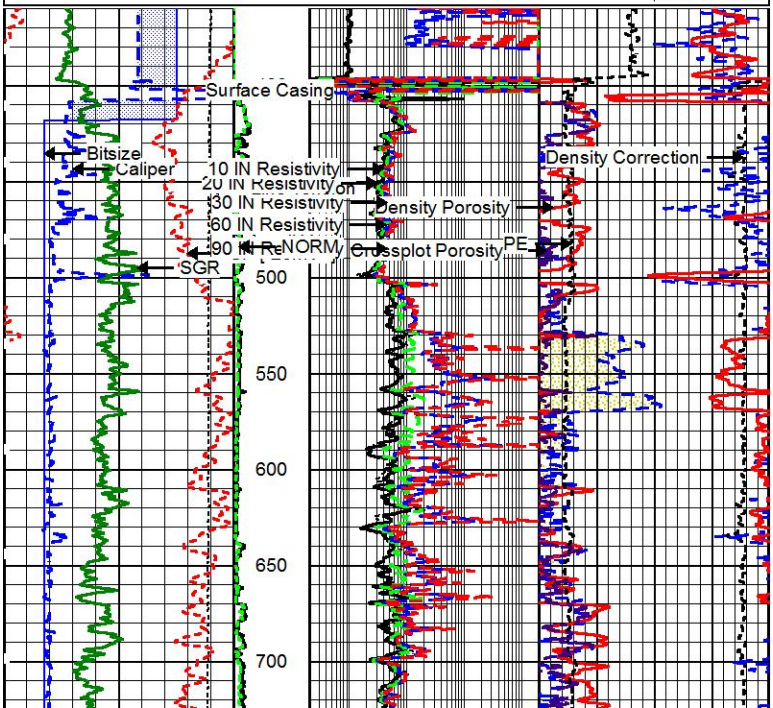
Company: Enduring Resources
Well: West Lybrook Unit 2309-24 N WSW
Field: West Lybrook
State: New Mexico

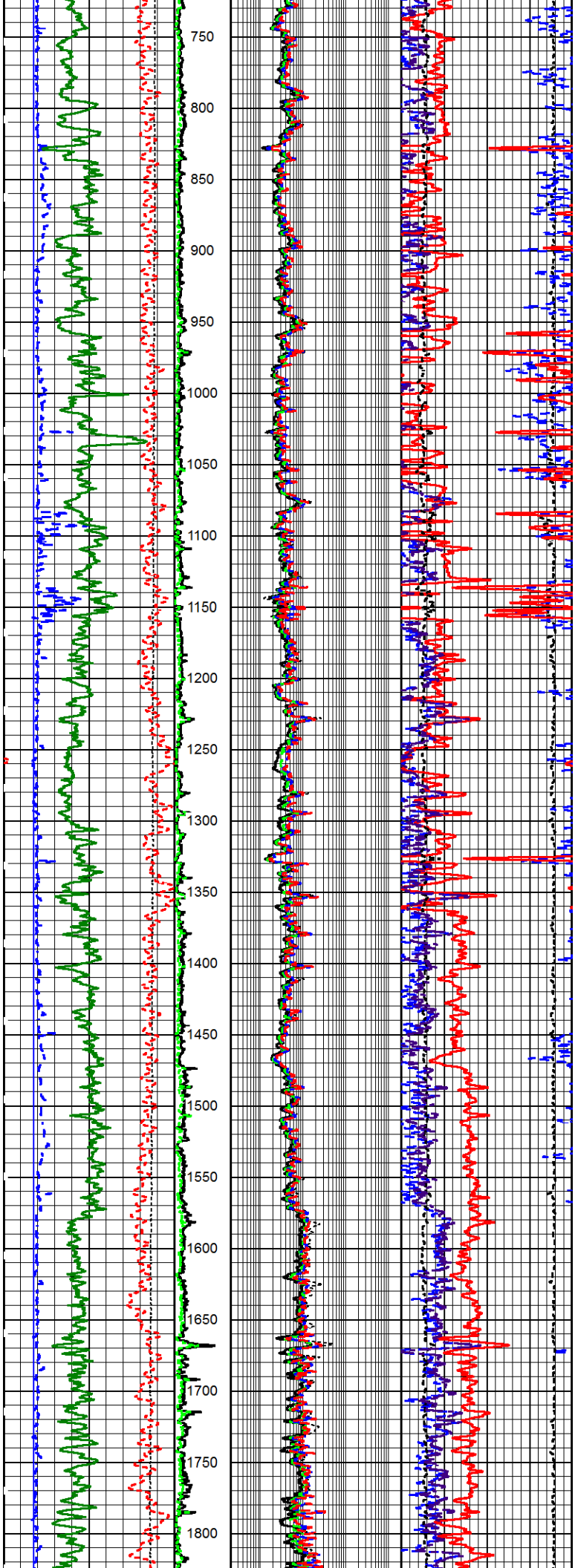
ALLIED HORIZONTAL WIRELINE SERVICES

Main Pass

Database File	enduringreswlybrook.db
Dataset Pathname	West_Lybrook/well/run1/main
Presentation Format	3com_iat
Dataset Creation	Tue Jan 15 15:23:37 2019
Charted by	Depth in Feet scaled 1:1200

7 Bitsize (in) 17	INV	10 IN Resistivity	Neutron Porosity		
7 Caliper (in) 17	Ohm-m	0.2 (Ohm-m) 2000	(Porosity Decimal Fraction)		
SP [-20mV+]	0 20	20 IN Resistivity	0.3 -0.1		
0 SGR (GAPI) 200	NORM	0.2 (Ohm-m) 2000	Density Porosity		
Line Tension	Ohm-m	30 IN Resistivity	(Porosity Decimal Fraction)		
5000lb) 0	0 20	0.2 (Ohm-m) 2000	0.3 -0.1		
		60 IN Resistivity	Crossplot Porosity		
		0.2 (Ohm-m) 2000	(Porosity Decimal Fraction)		
		90 IN Resistivity	0.3 -0.1		
		0.2 (Ohm-m) 2000	0 PE 10	nsity Correcti	
				(g/cc)	
				0.8 -0.2	

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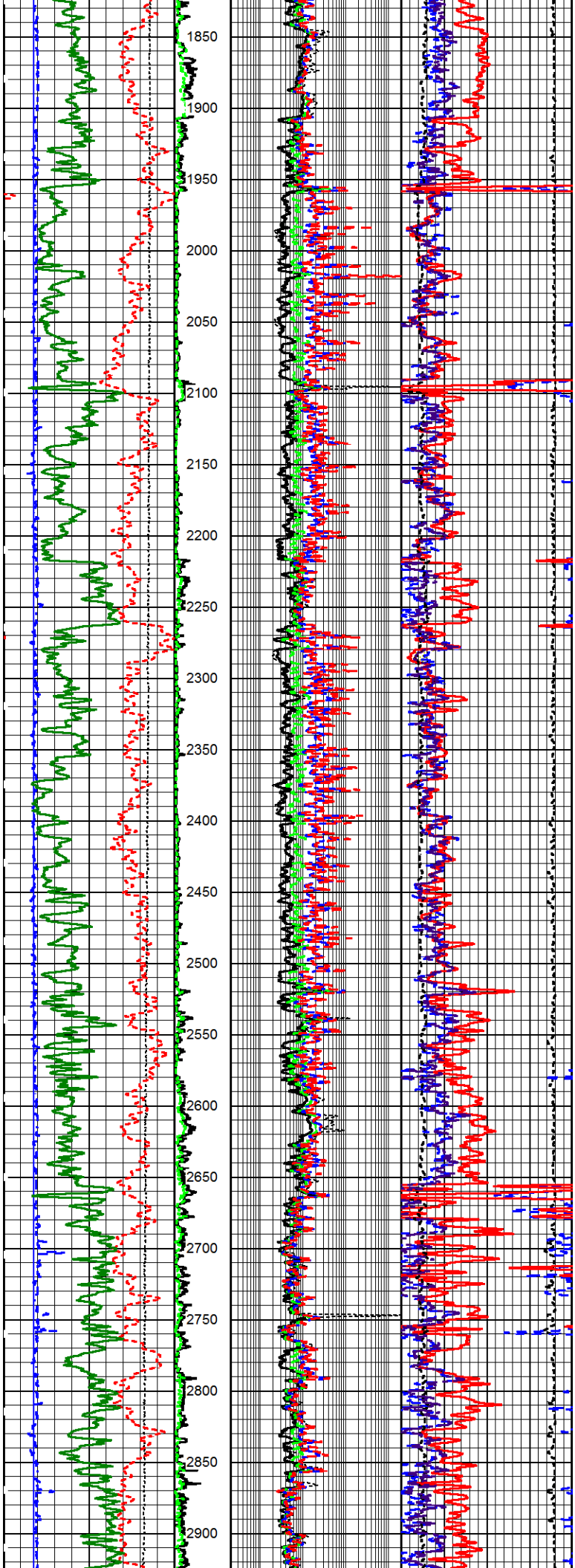
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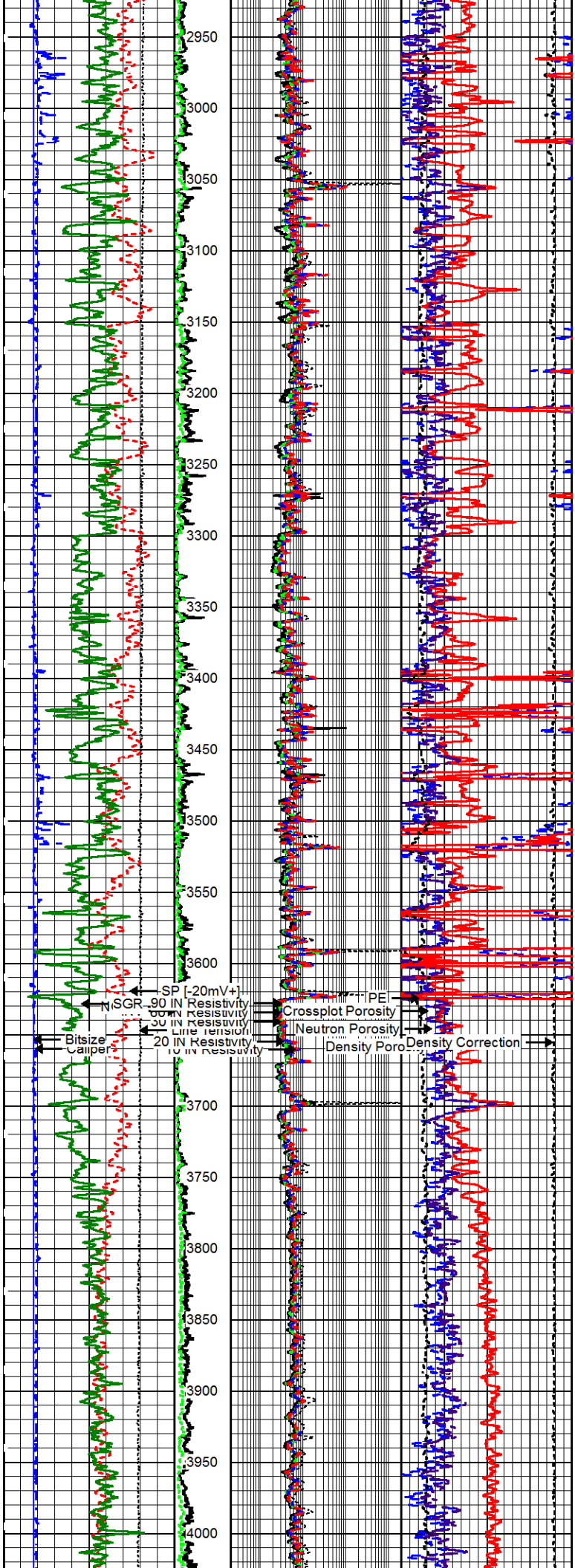
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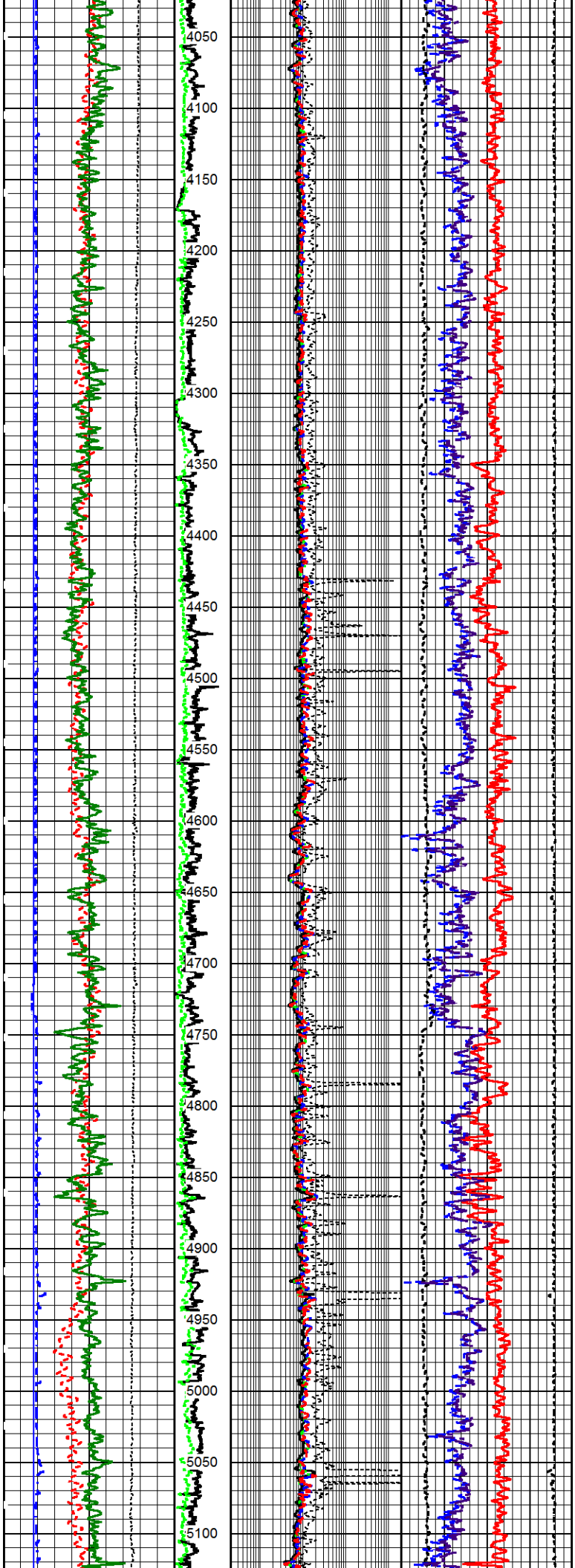
3850
3900
3950
4000
SP [-20mV+]
SGR
90 IN Resistivity
Crossplot Porosity
Line Tension
Neutron Porosity
Bitsize
Caliper
20 IN Resistivity
Density Poro
PE
Density Correction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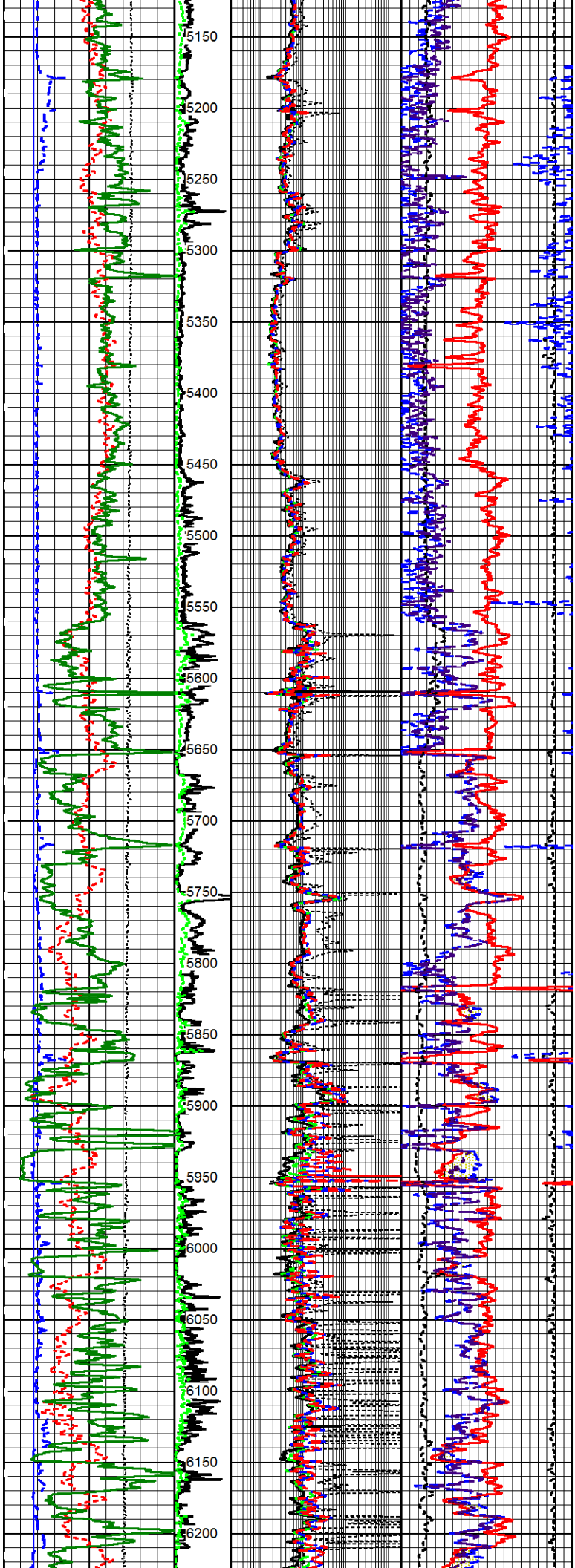
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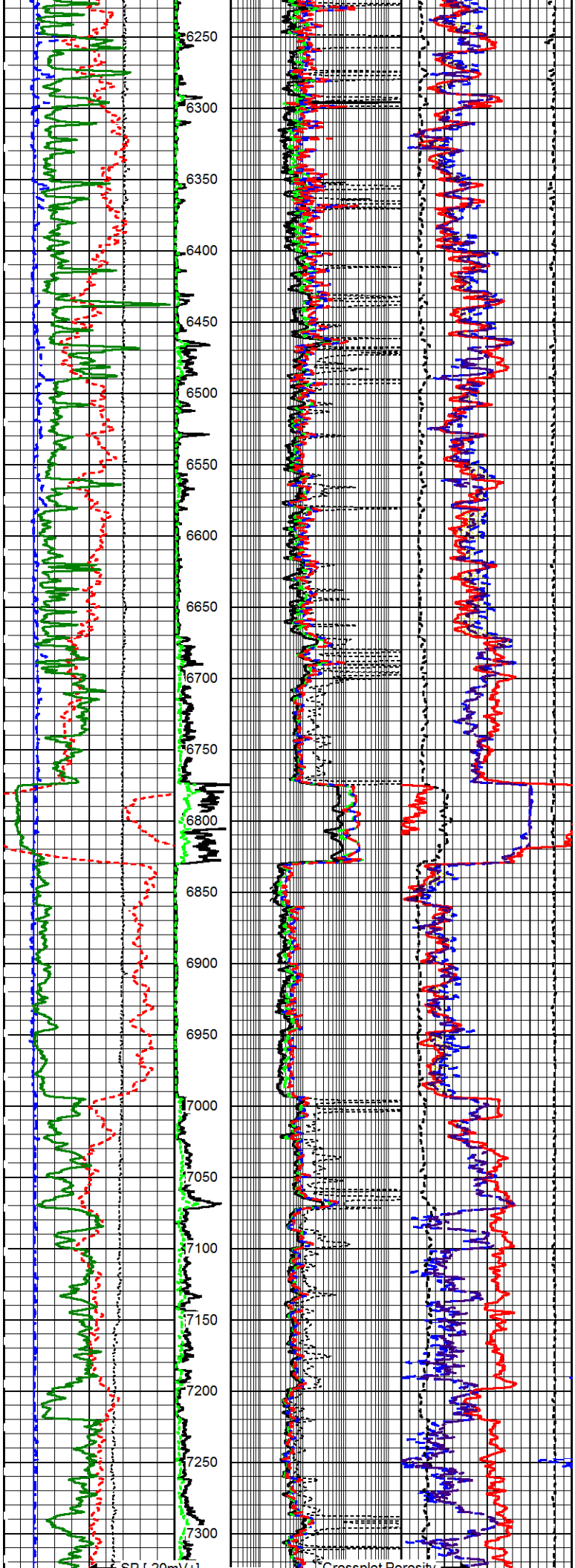
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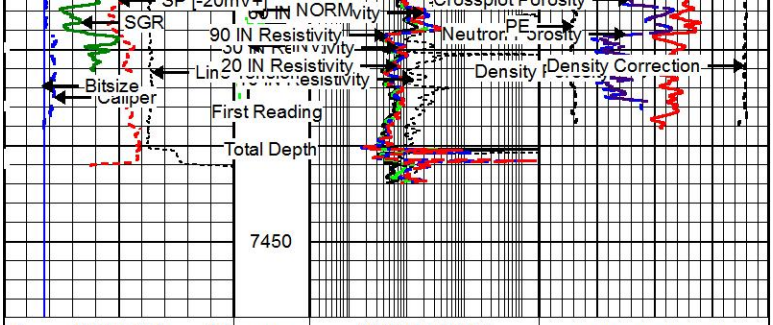

7	Bitsize (in) 17	INV	10 IN Resistivity	Neutron Porosity			
7	Caliper (in) 17	Ohm-m	0.2 (Ohm-m) 2000	(Porosity Decimal Fraction)			
	SP [-20mV+]	0 20	20 IN Resistivity	0.3 -0.1			
0	SGR (GAPI) 200	NORM	0.2 (Ohm-m) 2000	Density Porosity			
	Line Tension	Ohm-m	30 IN Resistivity	(Porosity Decimal Fraction)			
	5000lb) 0	0 20	0.2 (Ohm-m) 2000	0.3 -0.1			
			60 IN Resistivity	Crossplot Porosity			
			0.2 (Ohm-m) 2000	(Porosity Decimal Fraction)			
			90 IN Resistivity	0.3 -0.1			
			0.2 (Ohm-m) 2000	0 PE 10	nsity Correcti		
					(g/cc)		
					0.8 -0.2		

ALLIED HORIZONTAL WIRELINE SERVICES

Main Pass

ENCLOSURE I: PROOF OF NOTIFICATION

Farmington Daily Times
PART OF THE USA TODAY NETWORK

Affidavit of Publication

Ad # 0004627319

This is not an invoice

LT ENVIRONMENTAL, IN C.
848 EAST SECOND AVENUE DURANGO

DURANGO, CO 81301

I, being duly sworn say: **Farmington Daily Times**, a daily newspaper of general circulation published in English at Farmington, said county and state, and that the hereto attached Legal Notice was published in a regular and entire issue of the said DAILY TIMES, a daily newsaper duly qualified for the purpose within the State of New Mexico for publication and appeared in the internet at The Daily Times web site on the following days(s):

03/03/2021

Legal Clerk

Subscribed and sworn before me this March 3, 2021:

State of WI, County of Brown
NOTARY PUBLIC

9-19-21
My commission expires

Ms. Deidre Duffy, a representative of Enduring Resources IV, LLC, 200 Energy Court, Farmington, New Mexico 87401 (970-385-1096), wishes to provide notification for the submittal of an Application for Authorization to Inject to the New Mexico Oil Conservation Division (NMOCD). The application requests the use of existing diversion well SJ-4301 POD3 (WLU 2309-24N WSW), permitted with the New Mexico Office of the State Engineer (NMOSE), for the use as a Class II injection well. The well is located in San Juan County, New Mexico at latitude 36.205958°N, longitude 107.740891°W. This well will be used to inject fluids produced from the enhanced recovery of oil and/or natural gas in the San Juan Basin. Fluids will be injected into the Entrada Geologic Formation at depths between 6,851 feet and 6,990 feet below ground surface. Maximum injection rates and pressures are anticipated to be 20,000 barrels of water per day and 2,000 pounds per square inch gauge, respectively. Interested parties may contact the Oil Conservation Division, 1220 South Saint Francis Drive, Santa Fe, New Mexico 87505, within 15 days.
#4627319, Daily Times, March 3, 2021

VICKY FELTY
Notary Public
State of Wisconsin

Ad # 0004627319
PO #:
# of Affidavits 1

This is not an invoice

June 29, 2021

Dear Customer,

The following is the proof-of-delivery for tracking number: 774083612306

Delivery Information:

Status:	Delivered	**Delivered To:**	
Signed for by:	JROSADO	**Delivery Location:**	6251 COLLEGE BLVD
Service type:	FedEx Ground		
Special Handling:			Farmington, NM, 87402
		Delivery date:	Jun 25, 2021 13:24

Shipping Information:

Tracking number:	774083612306	**Ship Date:**	Jun 24, 2021
		Weight:	5.0 LB/2.27 KG

Recipient:
Ryan Joyner, BLM NM- Farmington Field Office
6251 College Blvd
Suite A
FARMINGTON, NM, US, 87402

Shipper:
Cortney Cook, WSP USA Inc.
848 E. 2nd Ave.
DURANGO, CO, US, 81301

Purchase Order TE077921005

Thank you for choosing FedEx

Well Name: W LYBROOK UT

Well Location: T23N / R9W / SEC 23 / SWSW / 36.206767 / -107.765027

County or Parish/State: SAN JUAN / NM

Well Number: 726Y

Type of Well: OIL WELL

Allottee or Tribe Name: EASTERN NAVAJO

Lease Number: N0G13121863

Unit or CA Name:

Unit or CA Number: NMNM135216A, NMNM135216X

US Well Number: 3004535769

Well Status: Drilling Well

Operator: ENDURING RESOURCES LLC

Notice of Intent

Type of Submission: Notice of Intent

Type of Action Facility

Date Sundry Submitted: 04/29/2021

Time Sundry Submitted: 02:54

Date proposed operation will begin: 05/12/2021

Procedure Description: Enduring Resources IV, LLC is requesting permission from the BLM to utilize an existing facility containing a water supply well located on BLM-owned surface, WLU 2309-24N (NMOSE well SJ-4301 POD3), as an injection well for recovered fracturing water from production well completions. The existing well is completed in the Entrada Formation, with water currently extracted for use in production well completions. The Entrada Formation contains low quality water and the formation is commonly used for both extraction and injection purposes in the San Juan Basin. The proposed injected water would be of similar quality to the existing water present in the Entrada Formation. Enduring would like to use the existing well alternatively for both extraction and injection purposes. Currently, the New Mexico Oil Conservation Division (NMOCD) has jurisdiction for permitting salt-water disposal wells (Class II injection wells) and requires that surface owners grant permission for such use. Please see the attached NMOCD Form C-108, Application for Authorization to Inject, for complete details regarding the existing well and proposed use for injection.

Surface Disturbance

Is any additional surface disturbance proposed?: No

Well Name: W LYBROOK UT

Well Location: T23N / R9W / SEC 23 / SWSW / 36.206767 / -107.765027

County or Parish/State: SAN JUAN / NM

Well Number: 726Y

Type of Well: OIL WELL

Allottee or Tribe Name: EASTERN NAVAJO

Lease Number: N0G13121863

Unit or CA Name:

Unit or CA Number: NMNM135216A, NMNM135216X

US Well Number: 3004535769

Well Status: Drilling Well

Operator: ENDURING RESOURCES LLC

Conditions of Approval

Additional Reviews

Form_C_108_SJ4301_POD3_20210611151106.pdf

Operator Certification

I certify that the foregoing is true and correct. Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction. Electronic submission of Sundry Notices through this system satisfies regulations requiring a submission of Form 3160-5 or a Sundry Notice.

Operator Electronic Signature: STUART HYDE

Signed on: APR 29, 2021 02:53 PM

Name: ENDURING RESOURCES LLC

Title: Geologist

Street Address: 848 E. 2ND AVE

City: DURANGO **State:** CO

Phone: (970) 903-1607

Email address: STUART.HYDE@WSP.COM

Field Representative

Representative Name:

Street Address:

City: **State:** **Zip:**

Phone:

Email address:

BLM Point of Contact

BLM POC Name: DAVE J MANKIEWICZ

BLM POC Title: AFM-Minerals

BLM POC Phone: 5055647761

BLM POC Email Address: DMANKIEW@BLM.GOV

Disposition: Approved

Disposition Date: 06/14/2021

Signature: Dave Mankiewicz