

Company: Enduring Resources, LLC

Well: North Escavada Unit 2207-16B-WSW

Field: Sandoval

County: Sandoval State: New Mexico

County: Sandoval
Field: Sandoval
Location: T22N R7W Sec. 16
Well: North Escavada Unit 2207-16B-WSW
Company: Enduring Resources, LLC

Platform Express
Array Induction
with Linear Correlation

T22N R7W Sec. 16		Elev.:	K.B.	6920.00 ft
Lat: 36.144072 Long: -107.576276			G.L.	6902.00 ft
			D.F.	6919.00 ft
Permanent Datum:	Ground Level	Elev.:	6902.00 f	
Log Measured From:	Kelly Bushing	18.00 ft	above Perm.Datum	
Drilling Measured From:	Kelly Bushing			
API Serial No.	Section: 16	Township: 22N	Range: 7W	

Logging Date	02-Oct-2018	
Run Number	One	
Depth Driller	7400.00 ft	
Schlumberger Depth	7400.00 ft	
Bottom Log Interval	7403.00 ft	
Top Log Interval	379.00 ft	
Casing Driller Size @ Depth	13.375 in @ 364.00 ft	
Casing Schlumberger	379 ft	
Bit Size	8.5 in	
Fluid In Hole	WBM	
Density	8.6 lbm/gal	26 s
Fluid Loss	PH 30 cm3	11
Source of Sample	Active Tank	
R @ Meas Temp	0.18 ohm.m	@ 68 degF
R @ Meas Temp	0.14 ohm.m	@ 68 degF
R @ Meas Temp	0.28 ohm.m	@ 68 degF
Service RMF	RMC	Pressed
R @ BHT	RMF @ BHT	0.08 @ 159.65 0.06 @ 159.65
Recorded Temperatures	160 degF	
Calculation Stopped	Time	02-Oct-2018 06:00:00
Logger on Bottom	Time	02-Oct-2018 15:15:00
Unit Number	Location:	9102 Stephen Tang Fort Morgan
Recorded By	Tim Dingman	

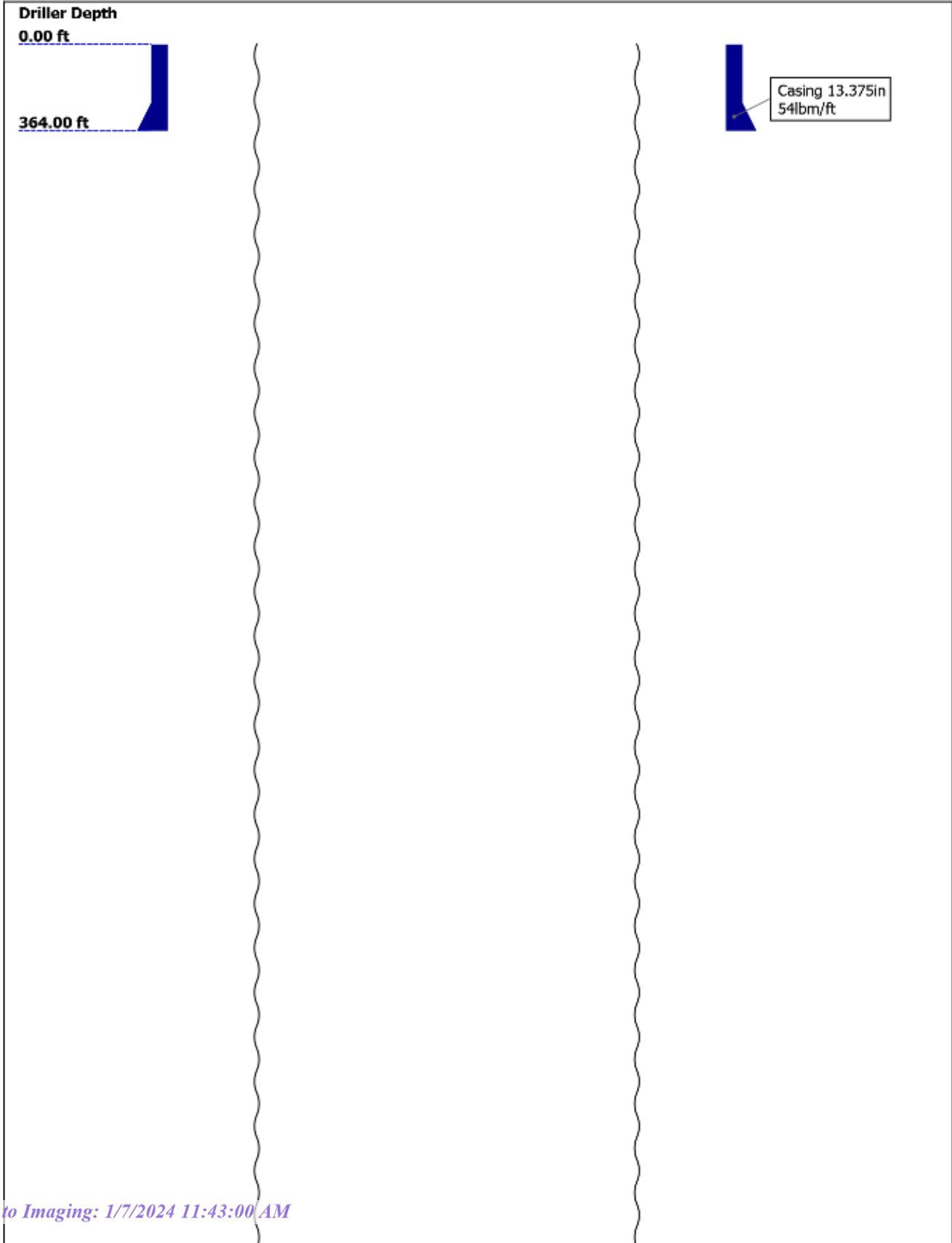
Disclaimer

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Well Sketch



7400.00 ft

Open Hole 8.5in

Borehole Size/Casing/Tubing Record

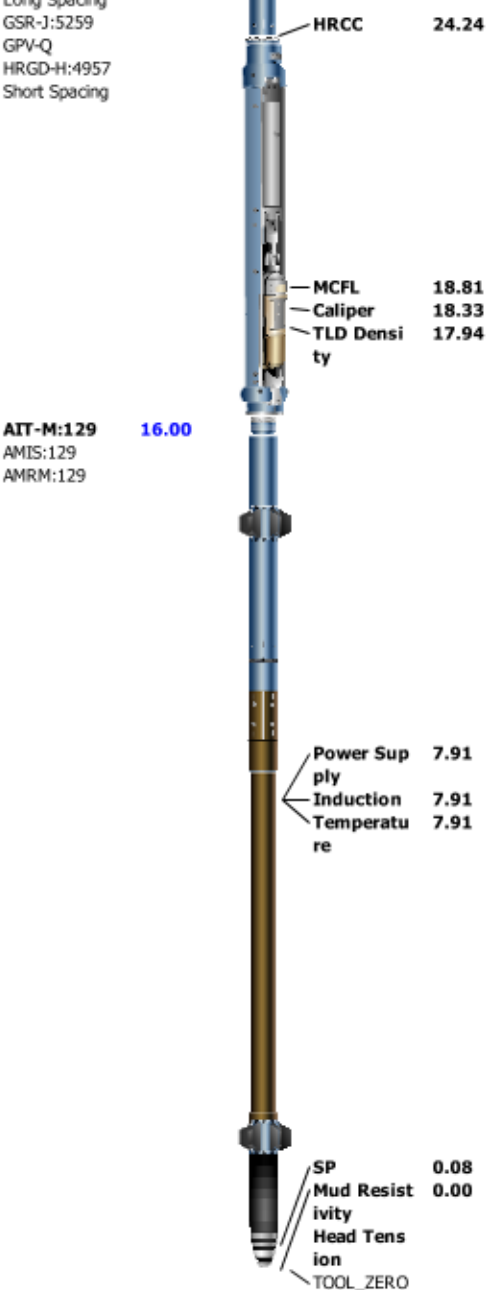
Bit						
Bit Size (in)	8.5					
Top Driller (ft)	0					
Top Logger (ft)	0					
Bottom Driller (ft)	7400					
Bottom Logger (ft)	7400					
Casing						
Size (in)	13.375					
Weight (lbm/ft)	54					
Inner Diameter (in)	12.614					
Grade	N/A					
Top Driller (ft)	0					
Top Logger (ft)	0					
Bottom Driller (ft)	364					
Bottom Logger (ft)	379					

Remarks and Equipment Summary

One: Toolstring				One: Remarks		
Equip name	Length	MP name	Offset	Toolstring ran as per toolsketch.		
LEH-QT	44.14			Logs processed on a sandstone matrix 2.68 q/cc		
DTC-H	40.65	CTEM	39.75			
ECH-KC		HV	0.00			
DTC-H		TelStatus	37.65			
		ToolStatus	37.65			
HGNS-H	37.65	Temperatu	37.62			
HGNH		re				
NSR-F:5203		GR	36.91			
NPV-N						
HACCZ-H:426						
4						
HMCA-H						
HGNS-H						
		CNL Poros	30.57			
		ity				
		HMCA	28.24			
		HGNS	28.24			
		eter				
HDPS-H	28.24					

HRMS-H
ECH-MEB
HRMS-H
Backscatter:2
6784
Long Spacing
GSR-J:5259
GPV-Q
HRGD-H:4957
Short Spacing

Received by OCD: 1/7/2024 11:42:03 AM



Lengths are in ft
Maximum Outer Diameter = 9.000 in
Line: Sensor Location, Value: Gating Offset
All measurements are relative to TOOL_ZERO

Depth Summary

	One		
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Depth Measuring Device

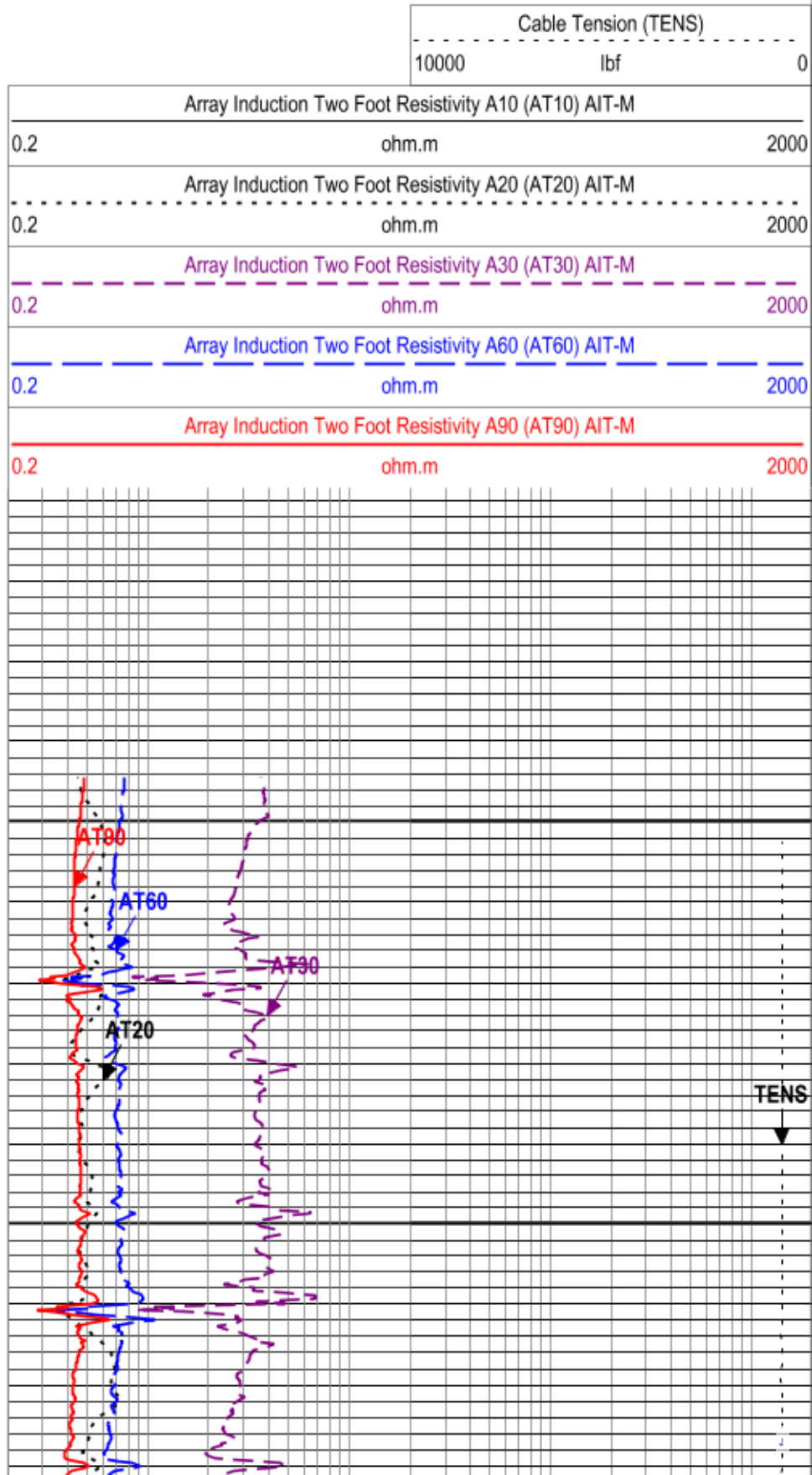
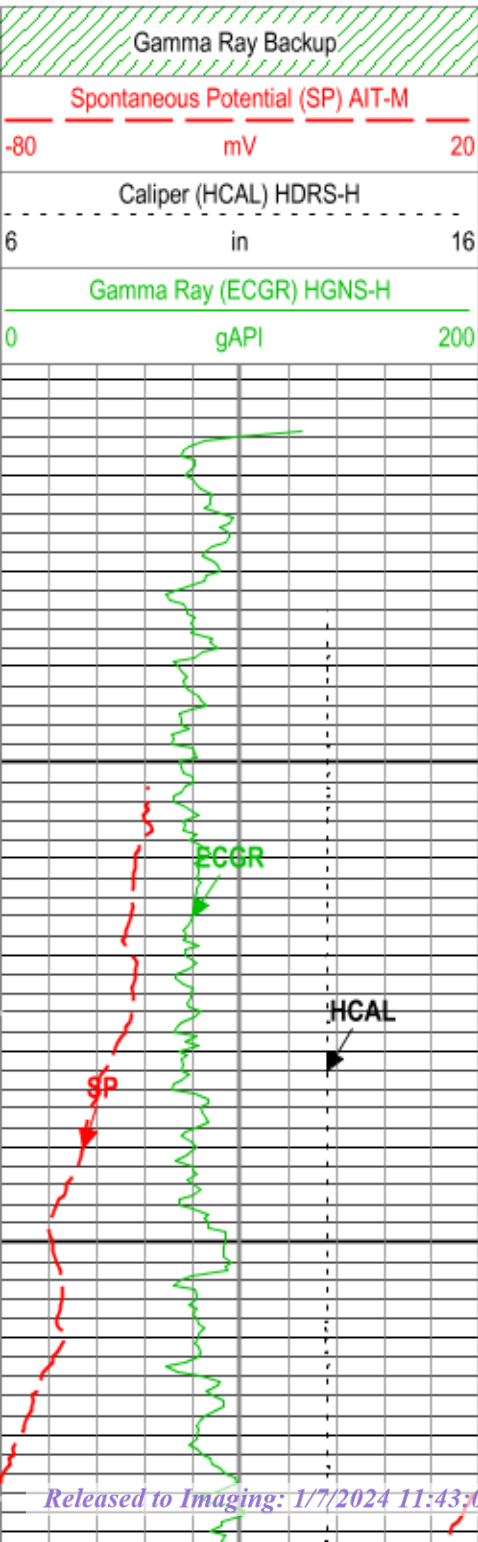
Type	IDW-B		
Serial Number			
Calibration Date			
Calibrator Serial Number			
Calibration Cable Type			
Wheel Correction 1	0		
Wheel Correction 2	0		

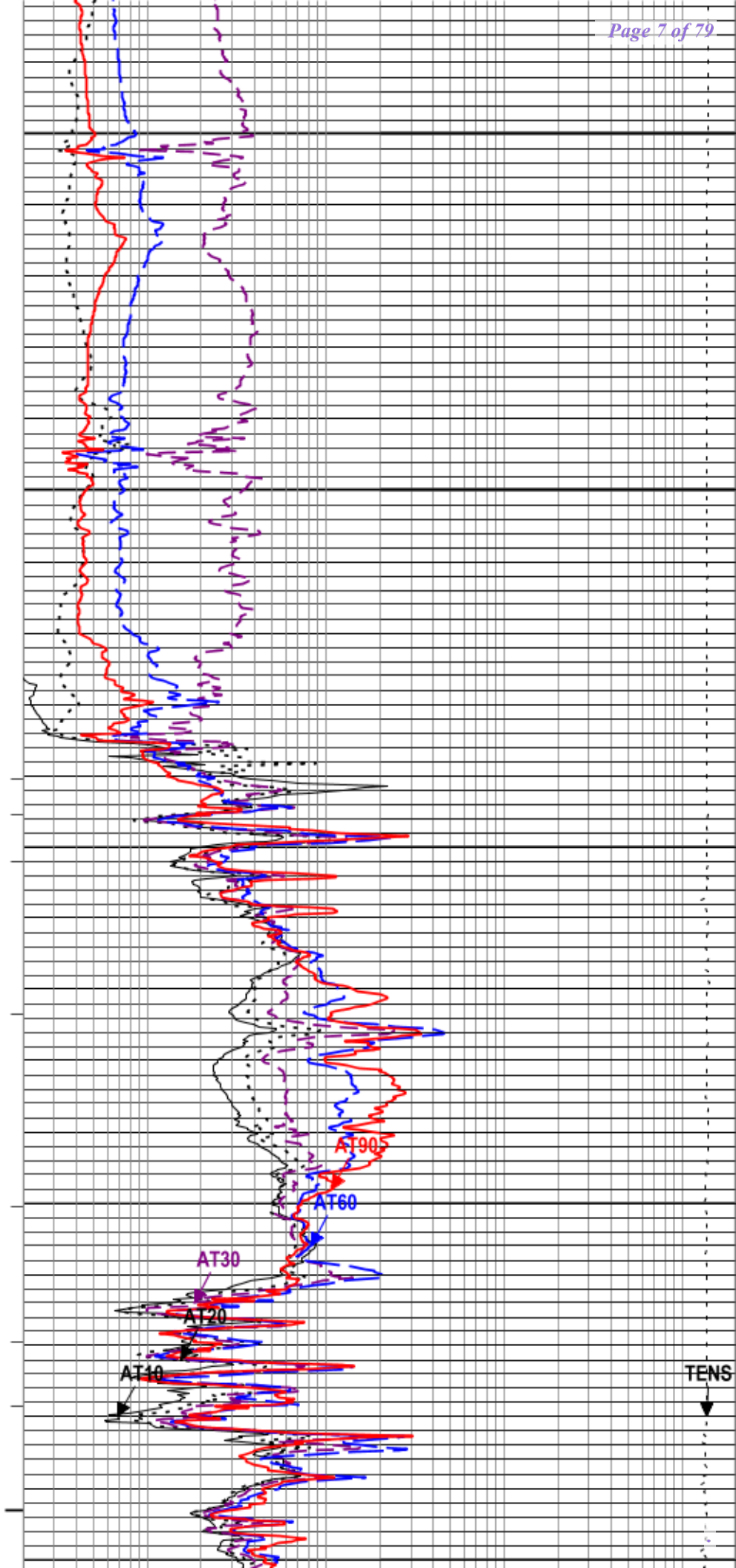
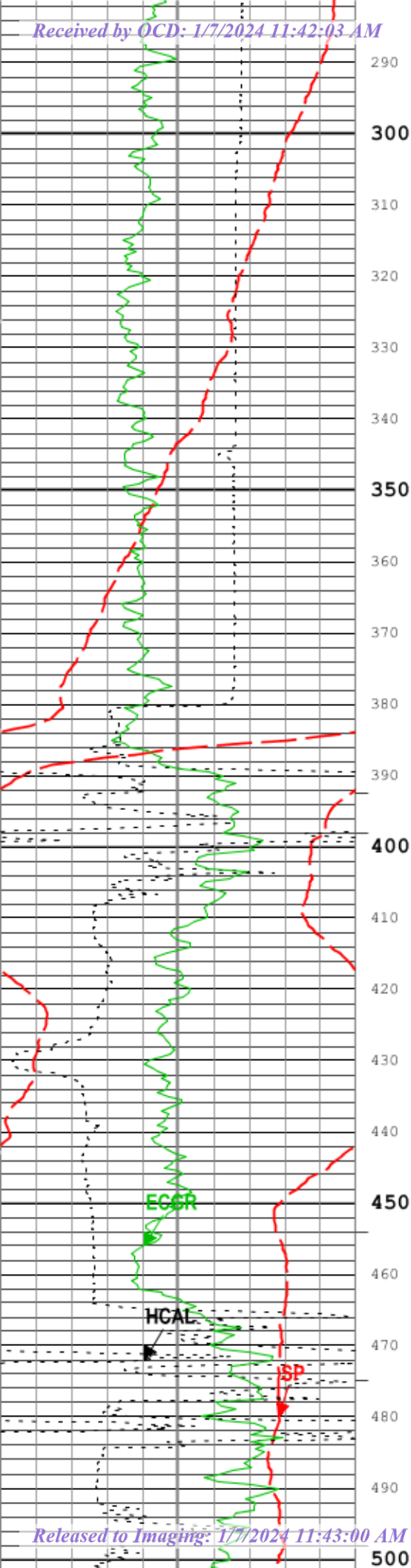
Tension Device

Type	CMTD-B/A		
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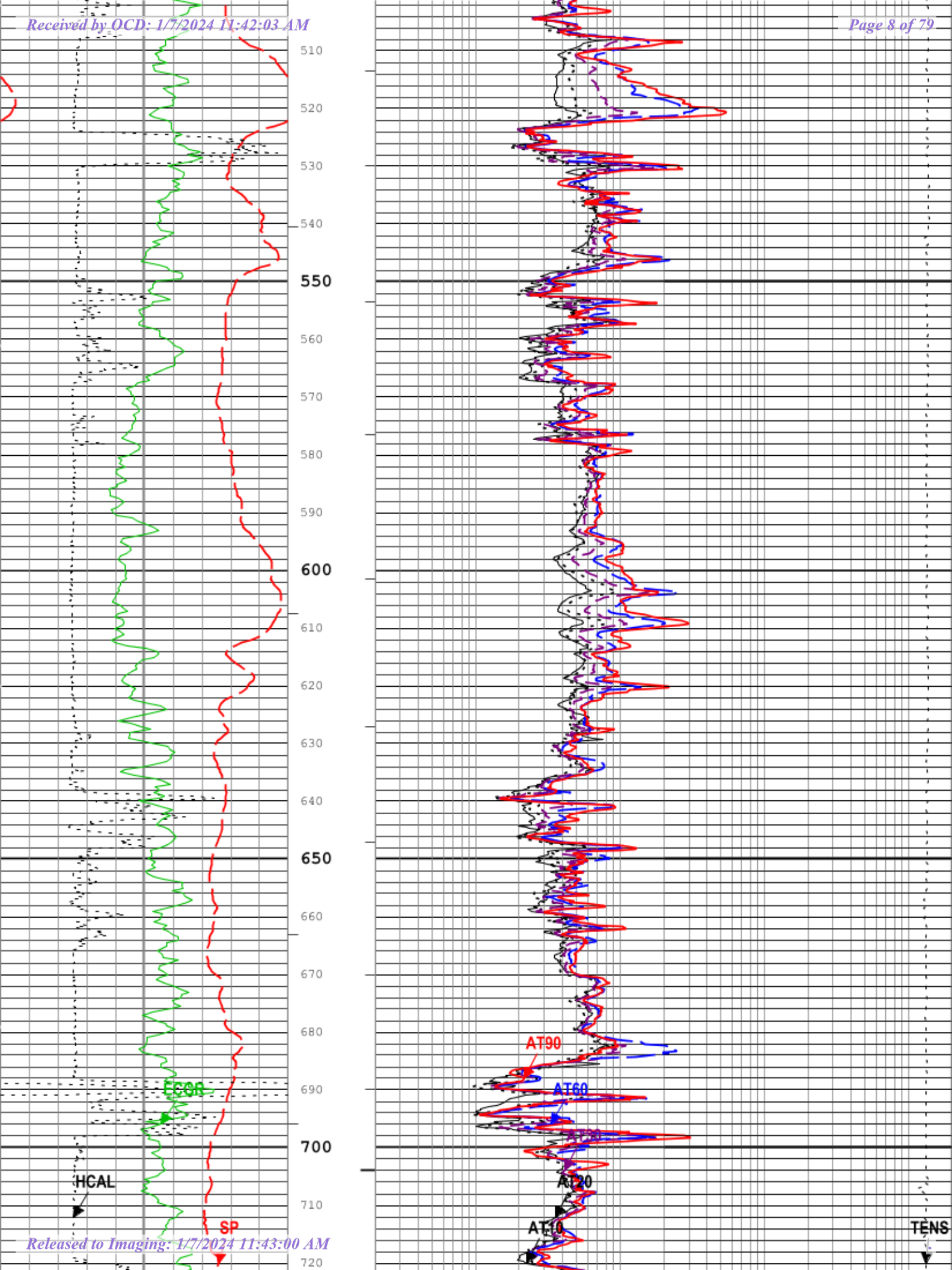
—IHV - Integrated Hole Volume every 10.00 (ft3)
—IHV - Integrated Hole Volume every 100.00 (ft3)
—ICV - Integrated Cement Volume every 10.00 (ft3)
—ICV - Integrated Cement Volume every 100.00 (ft3)

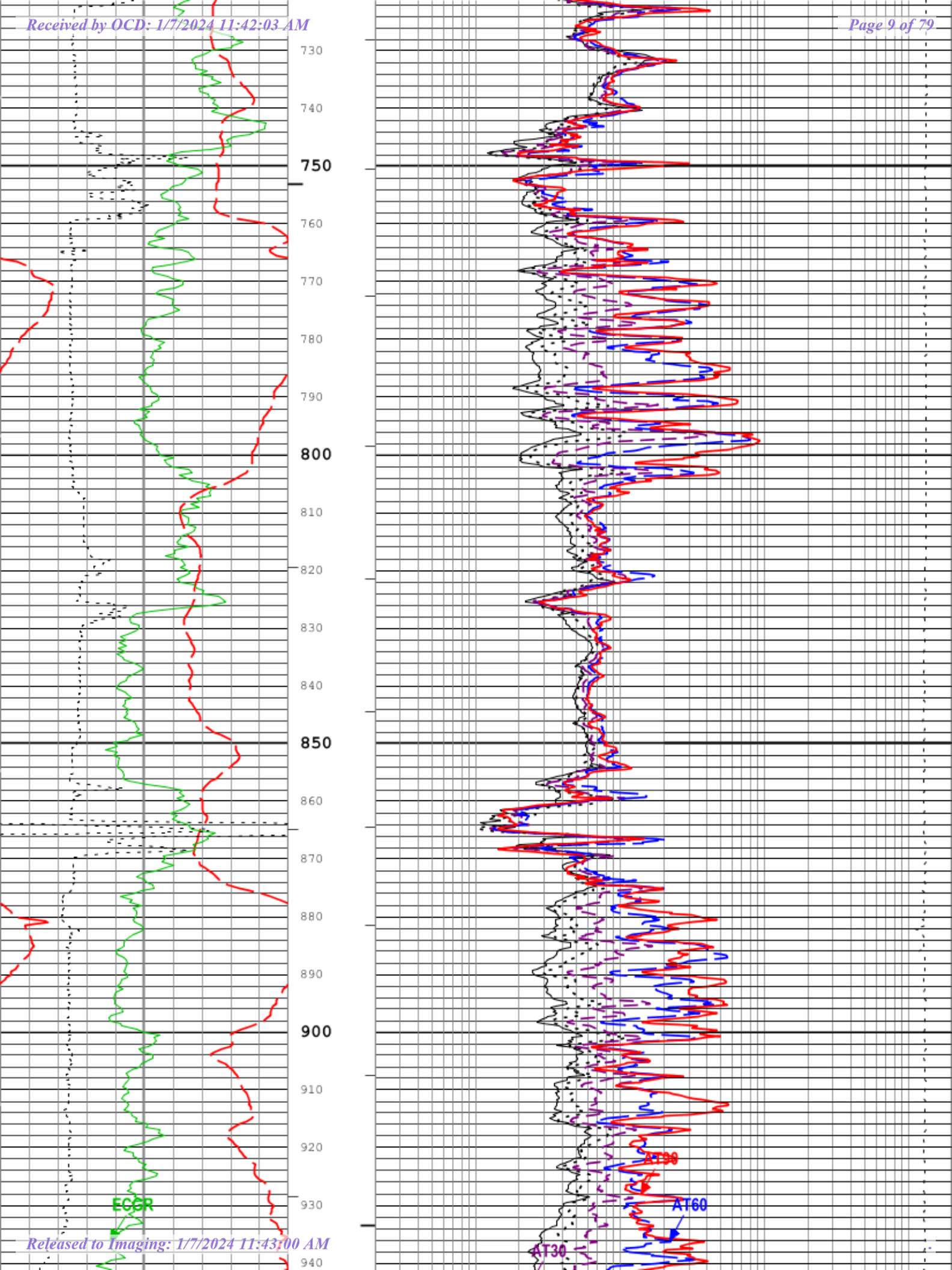
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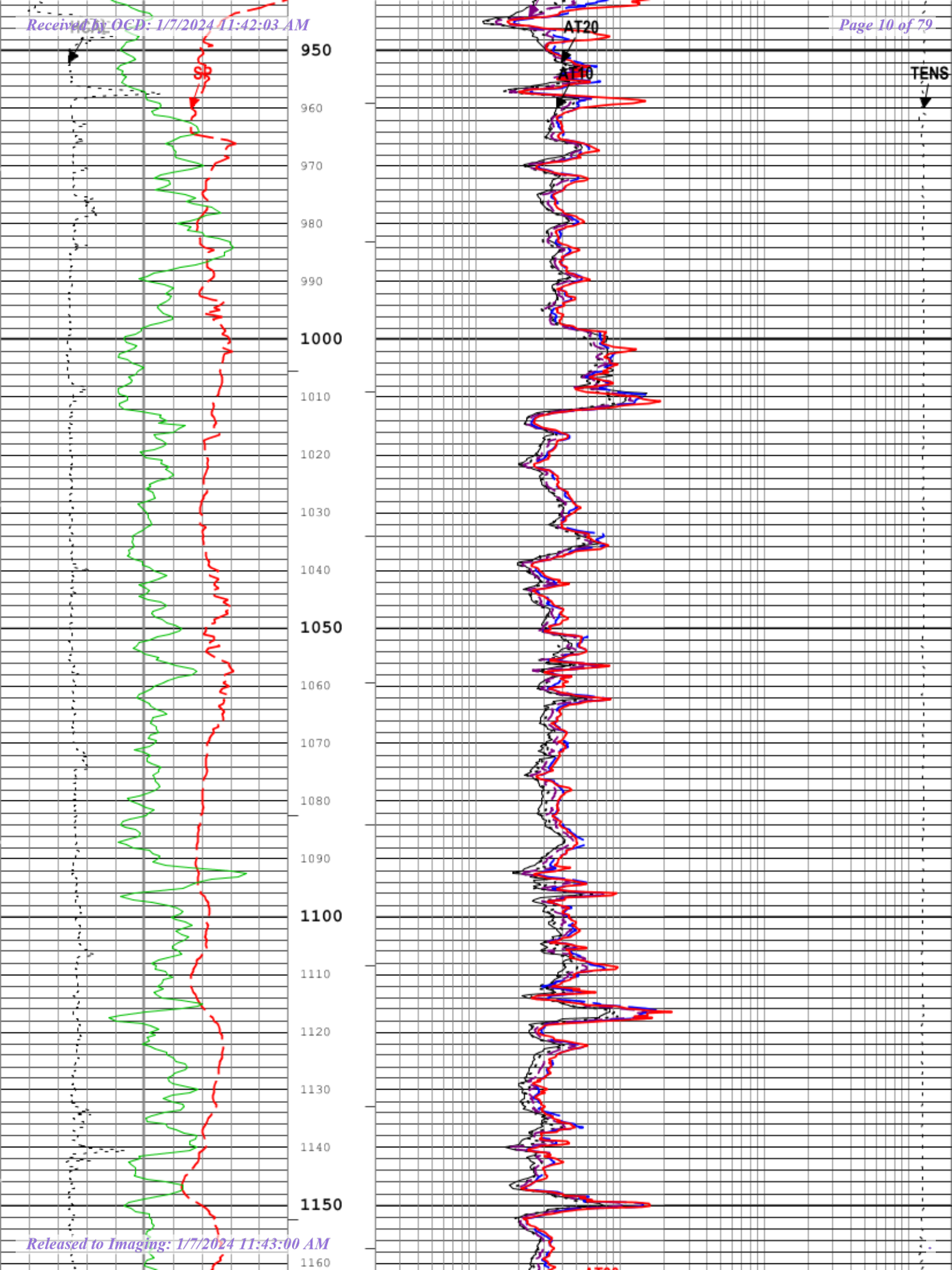


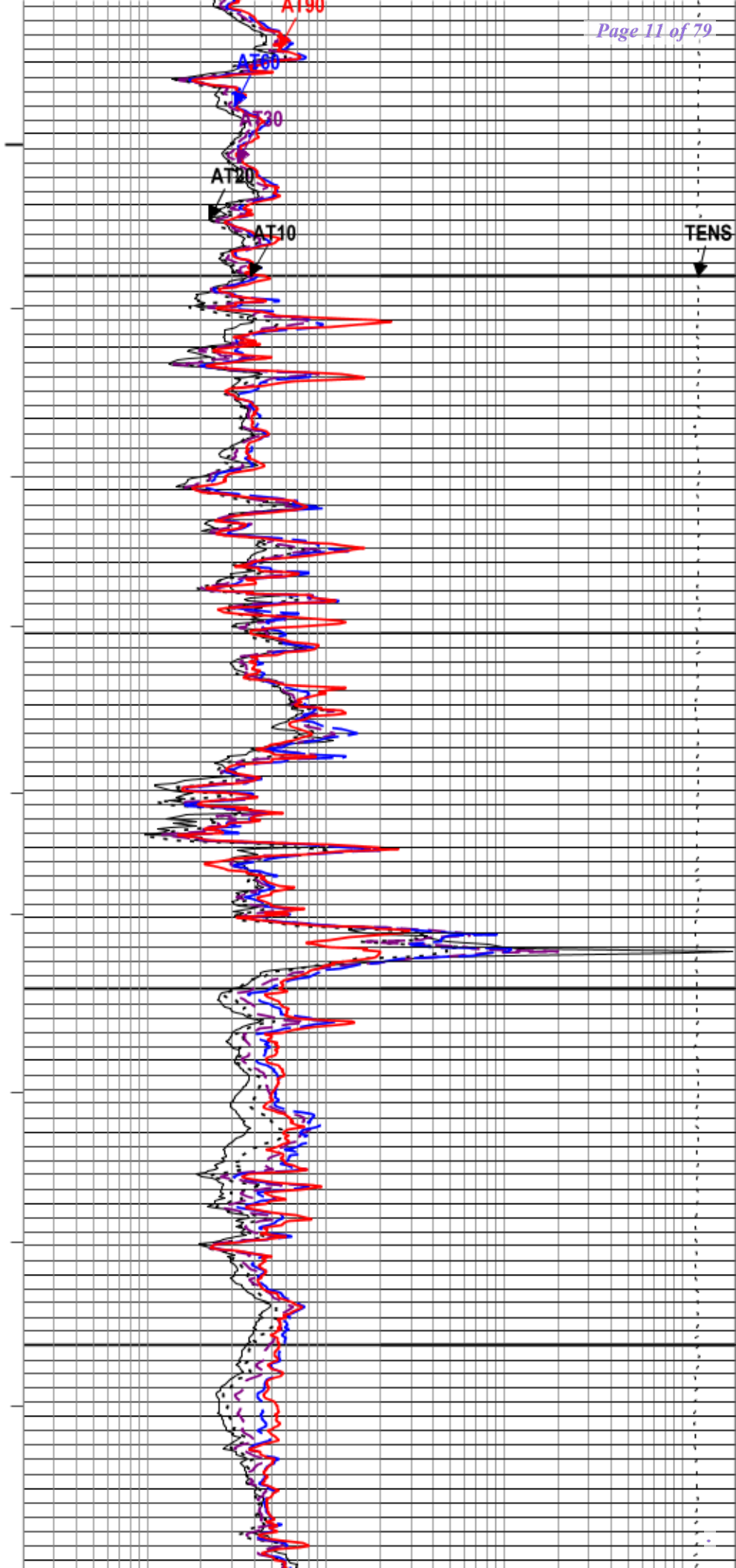
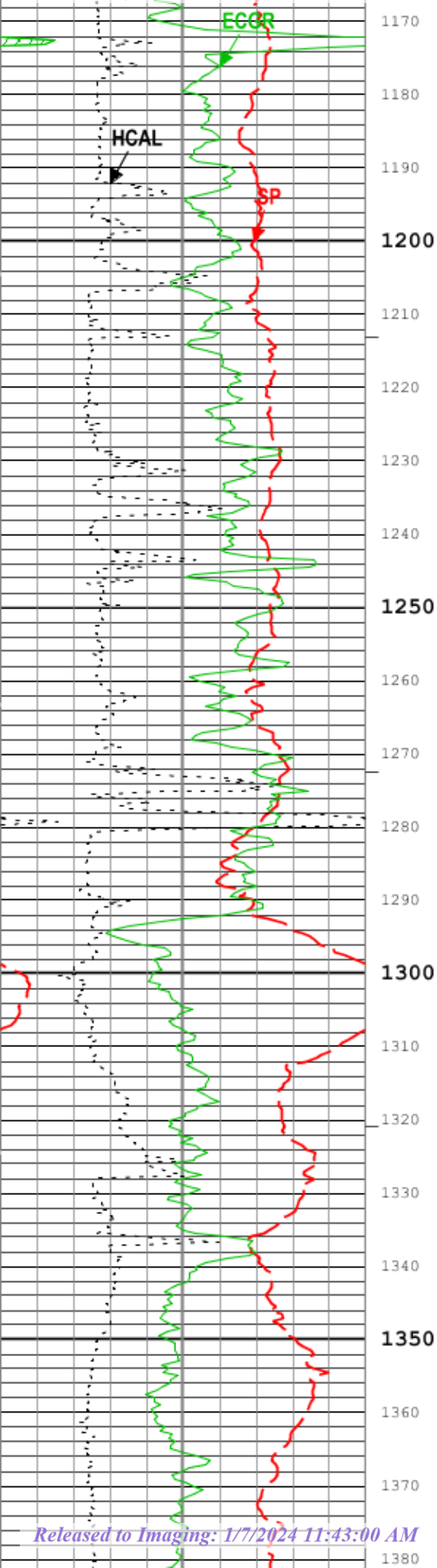


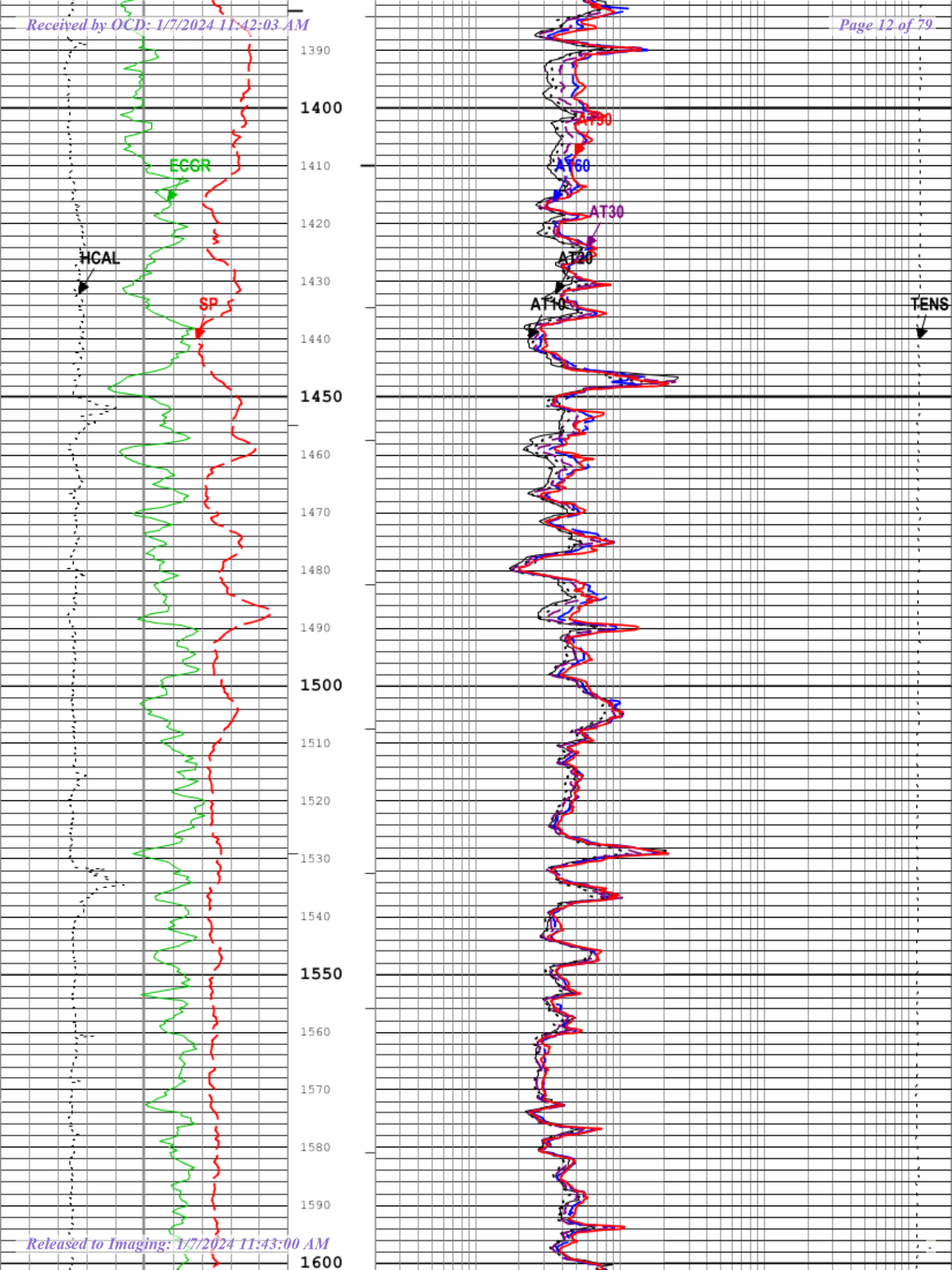
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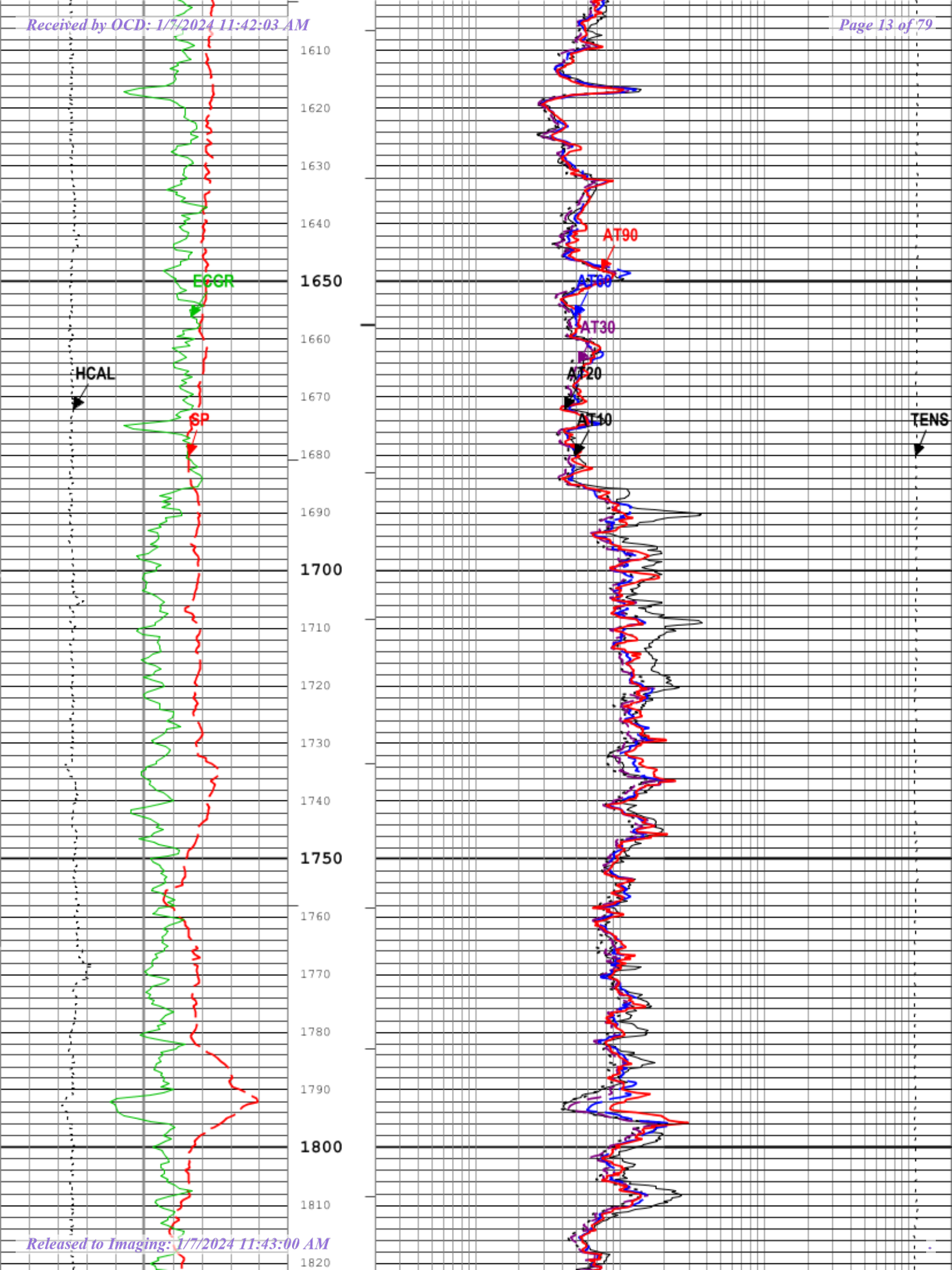


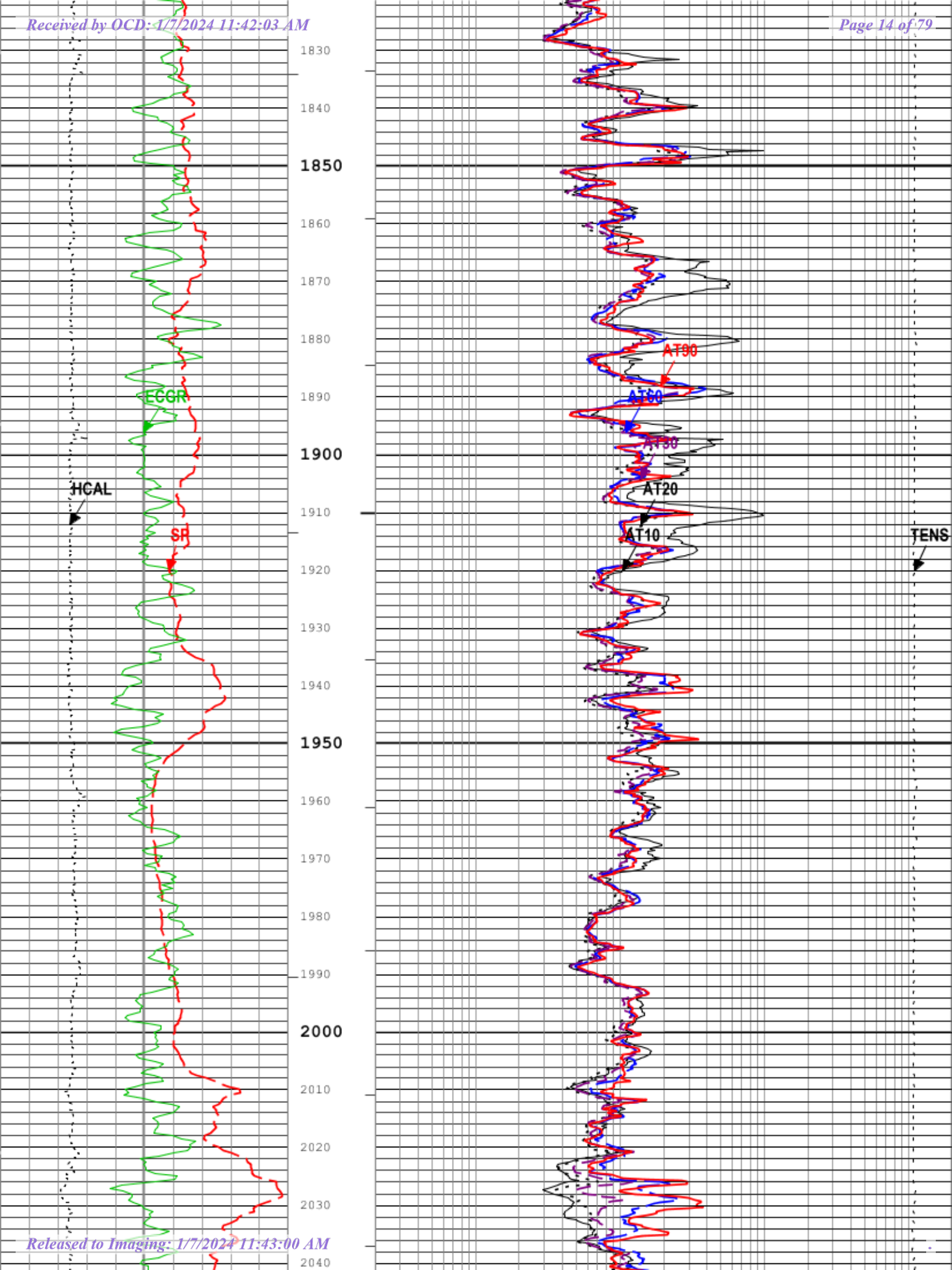


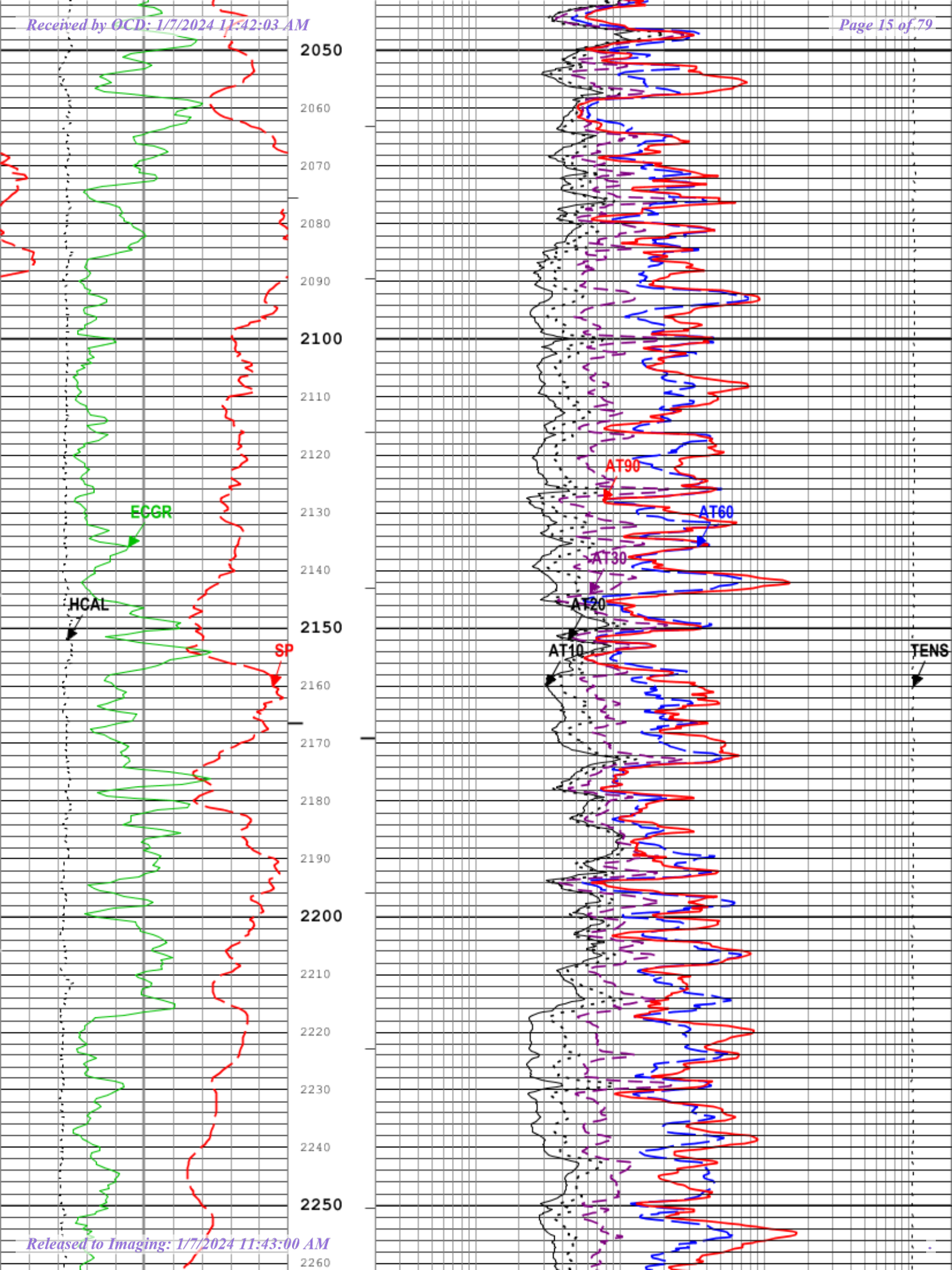


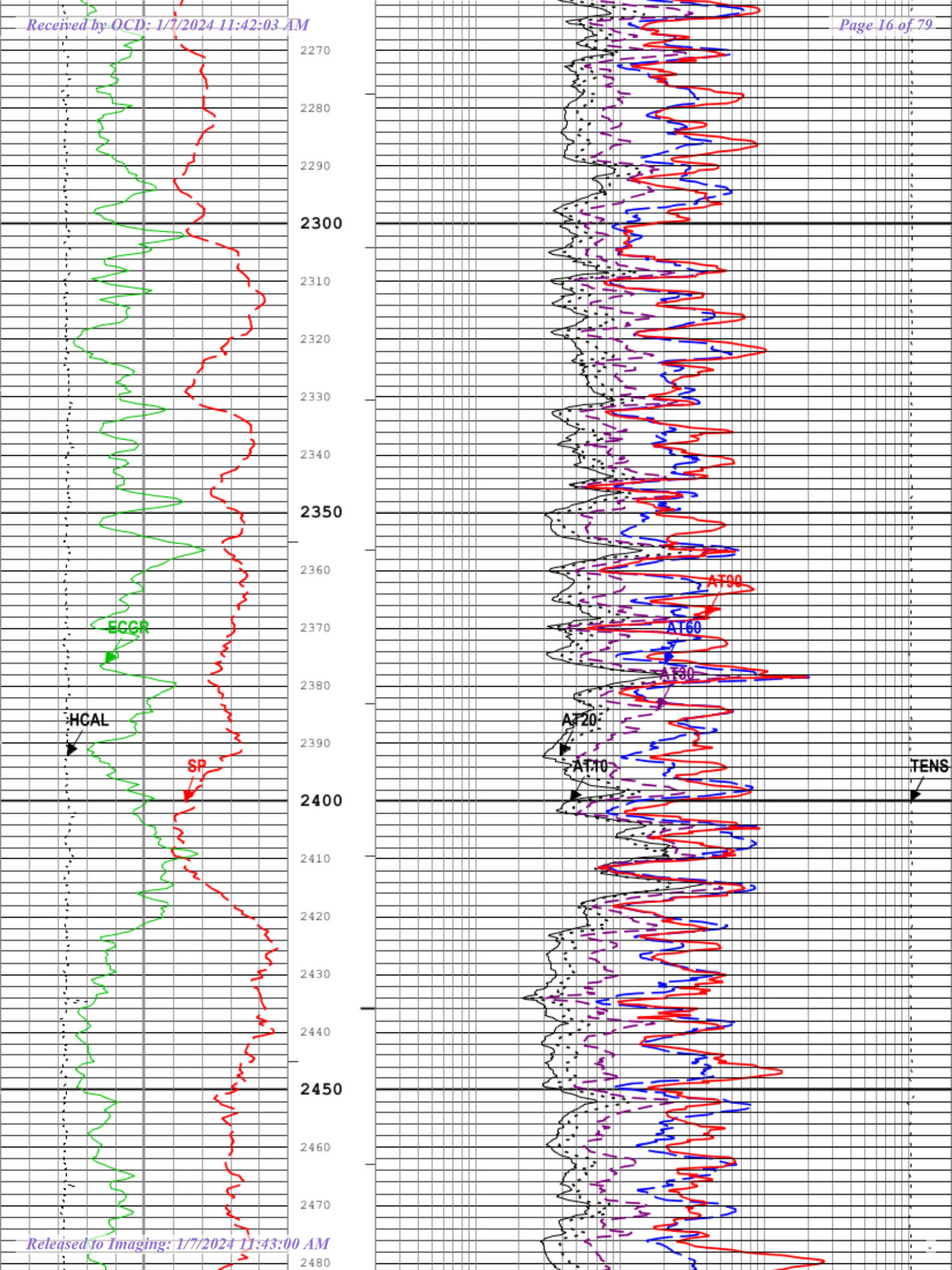


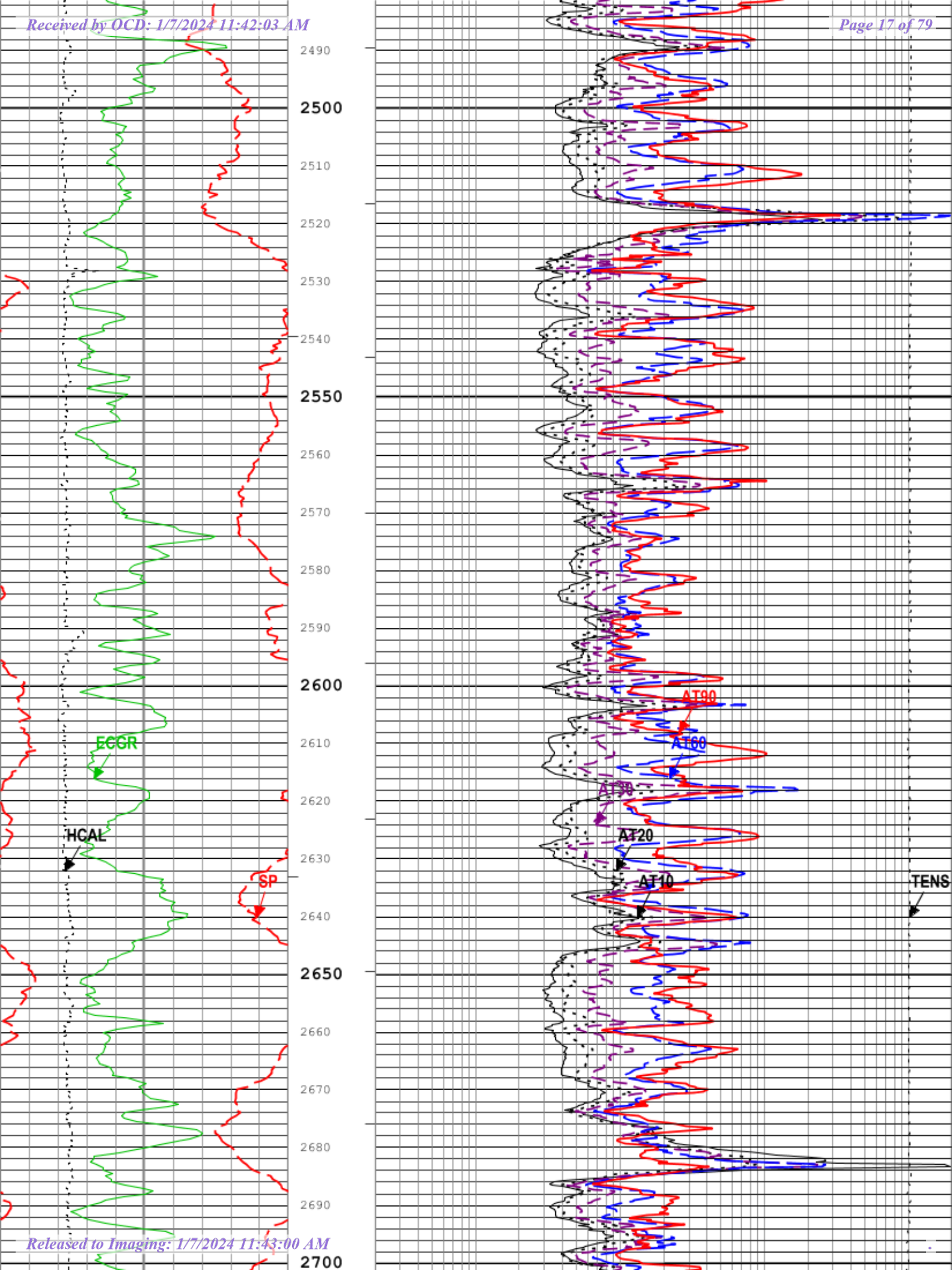


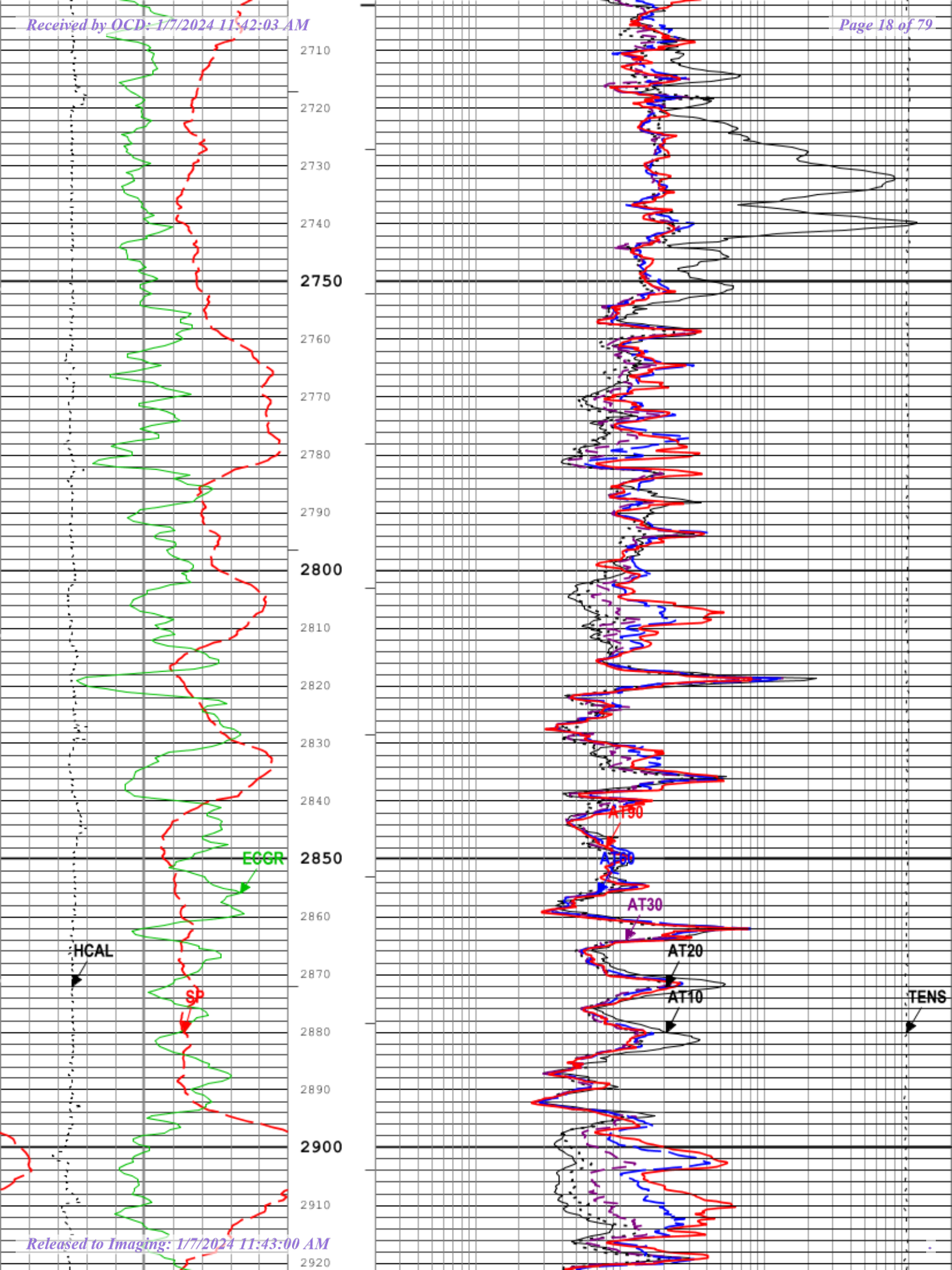


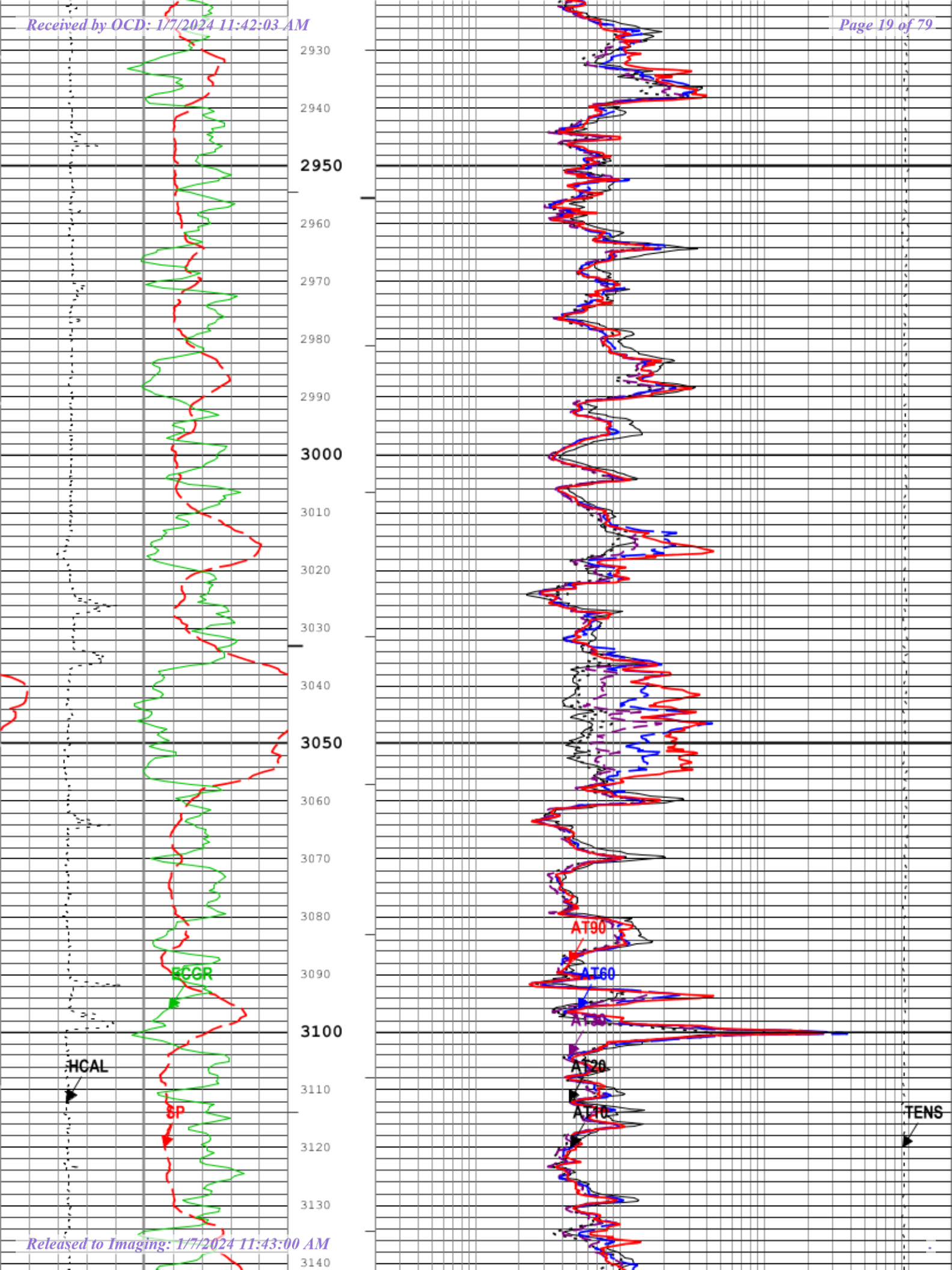


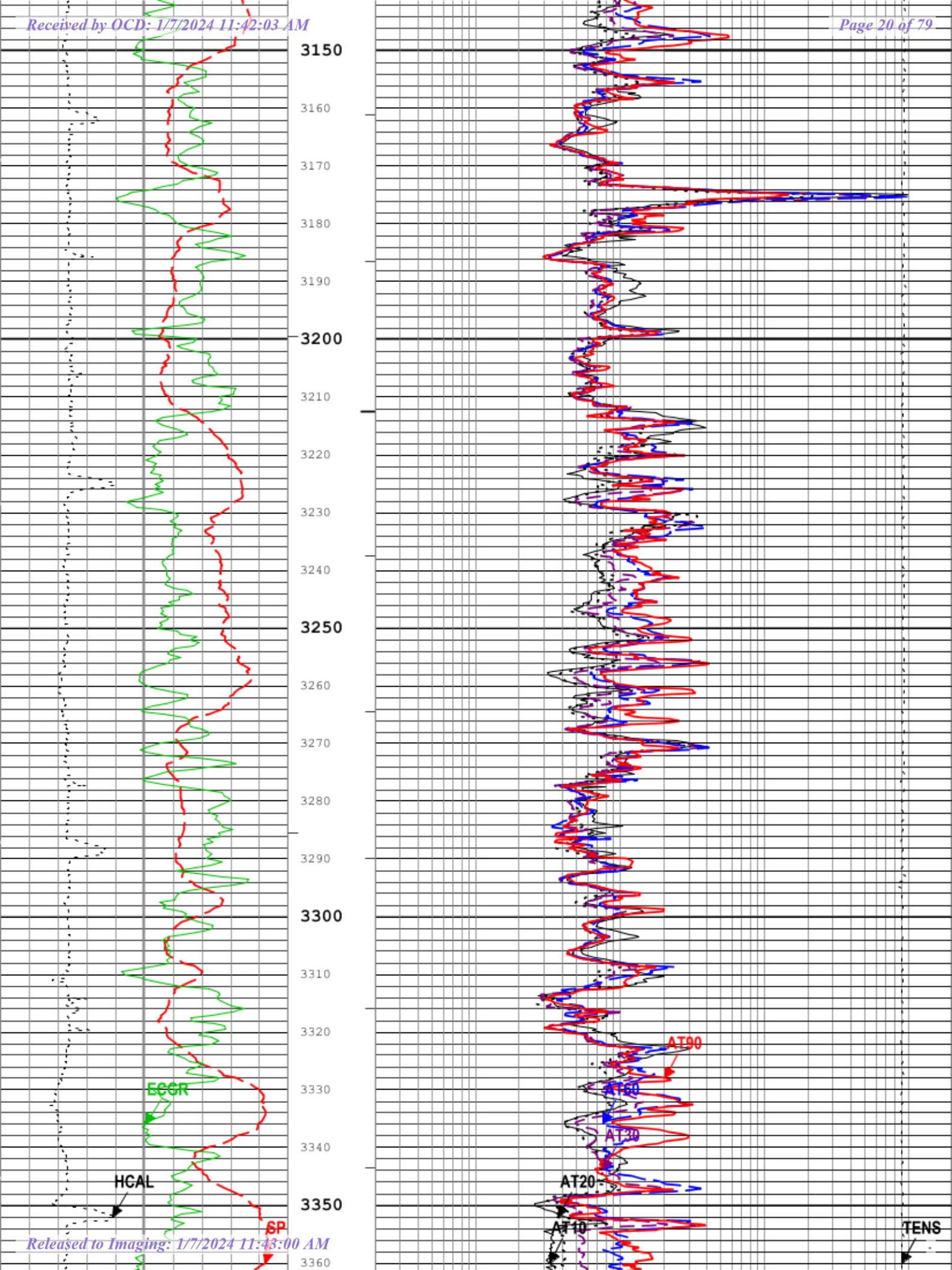


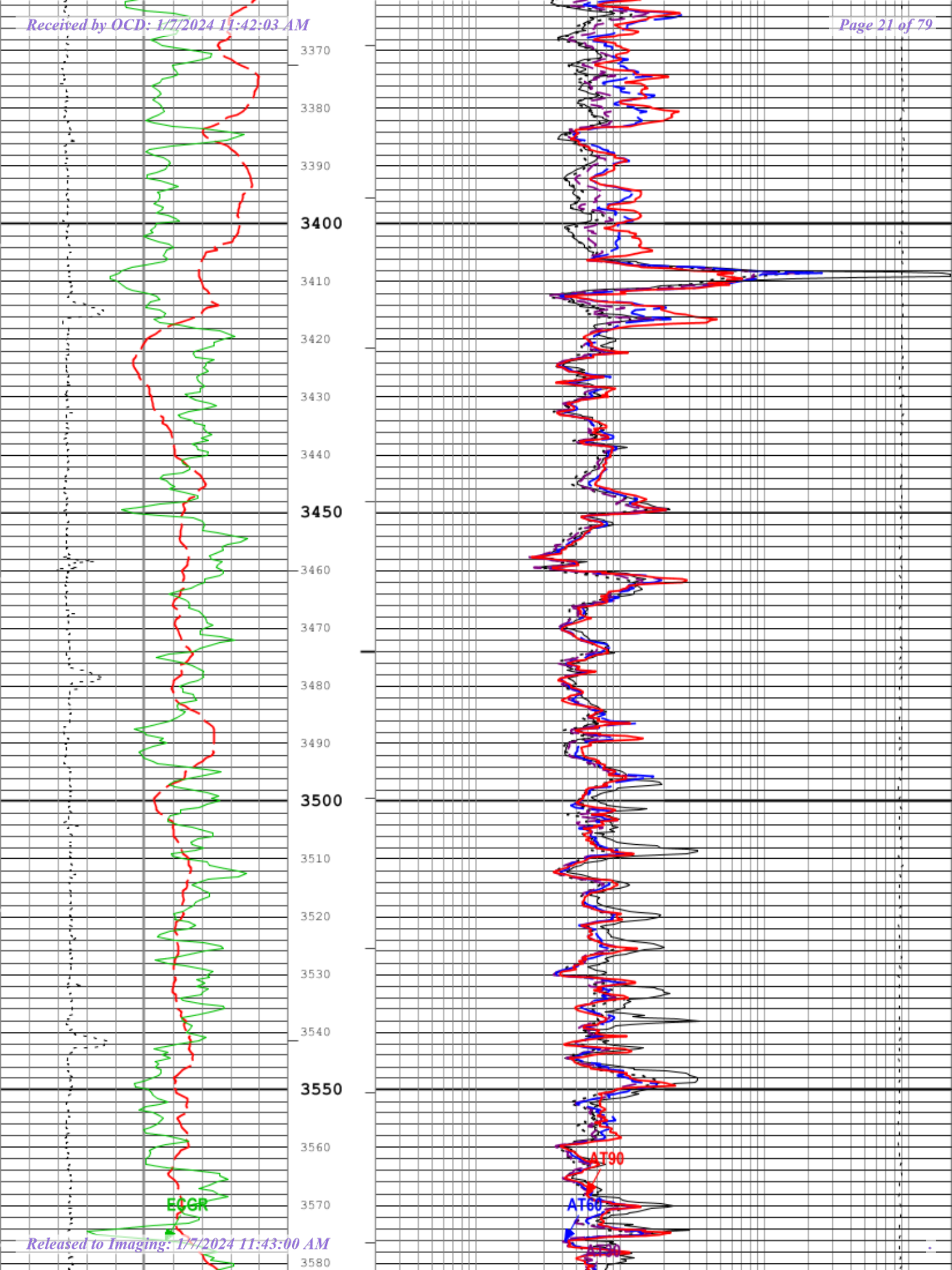


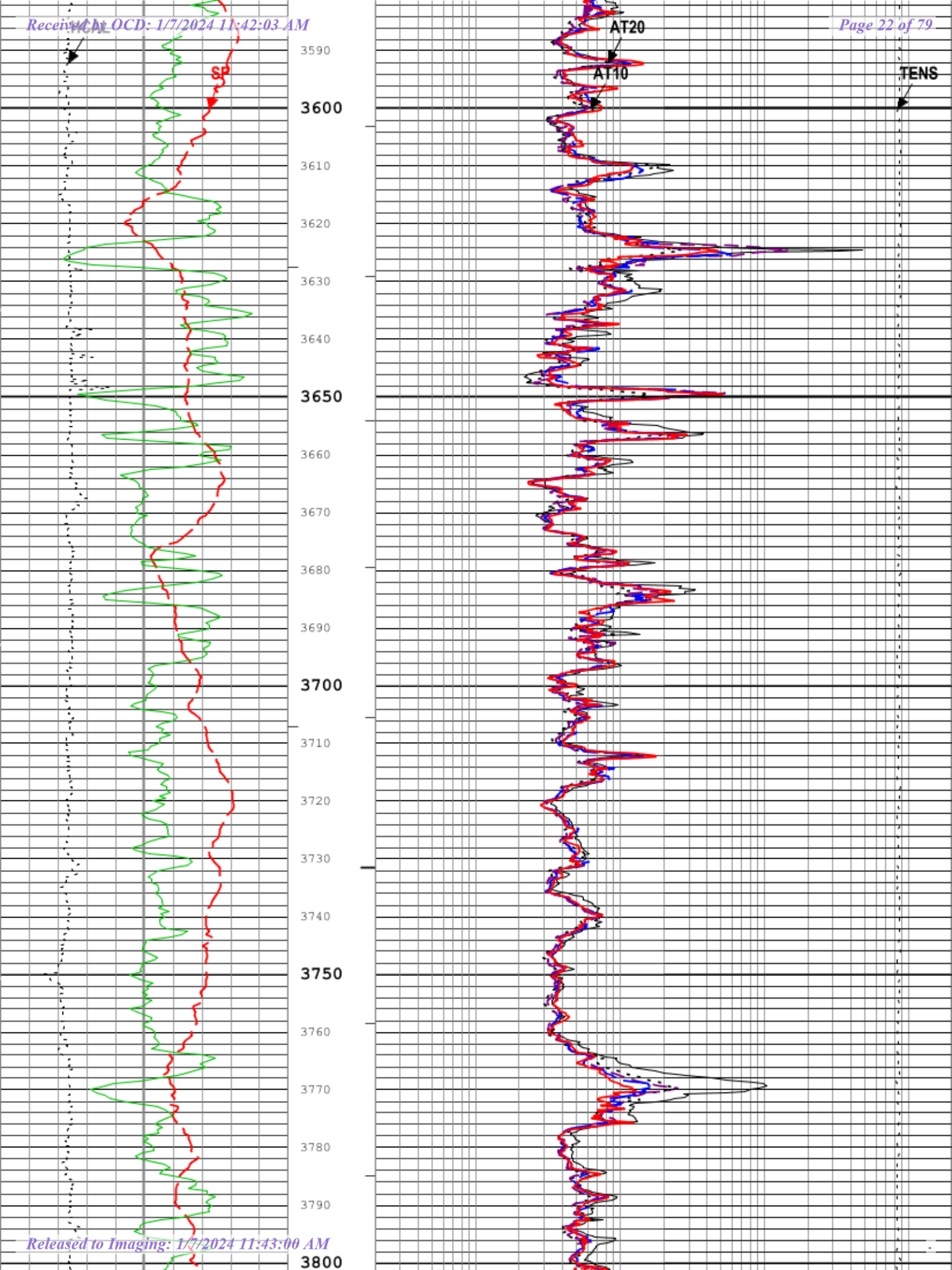


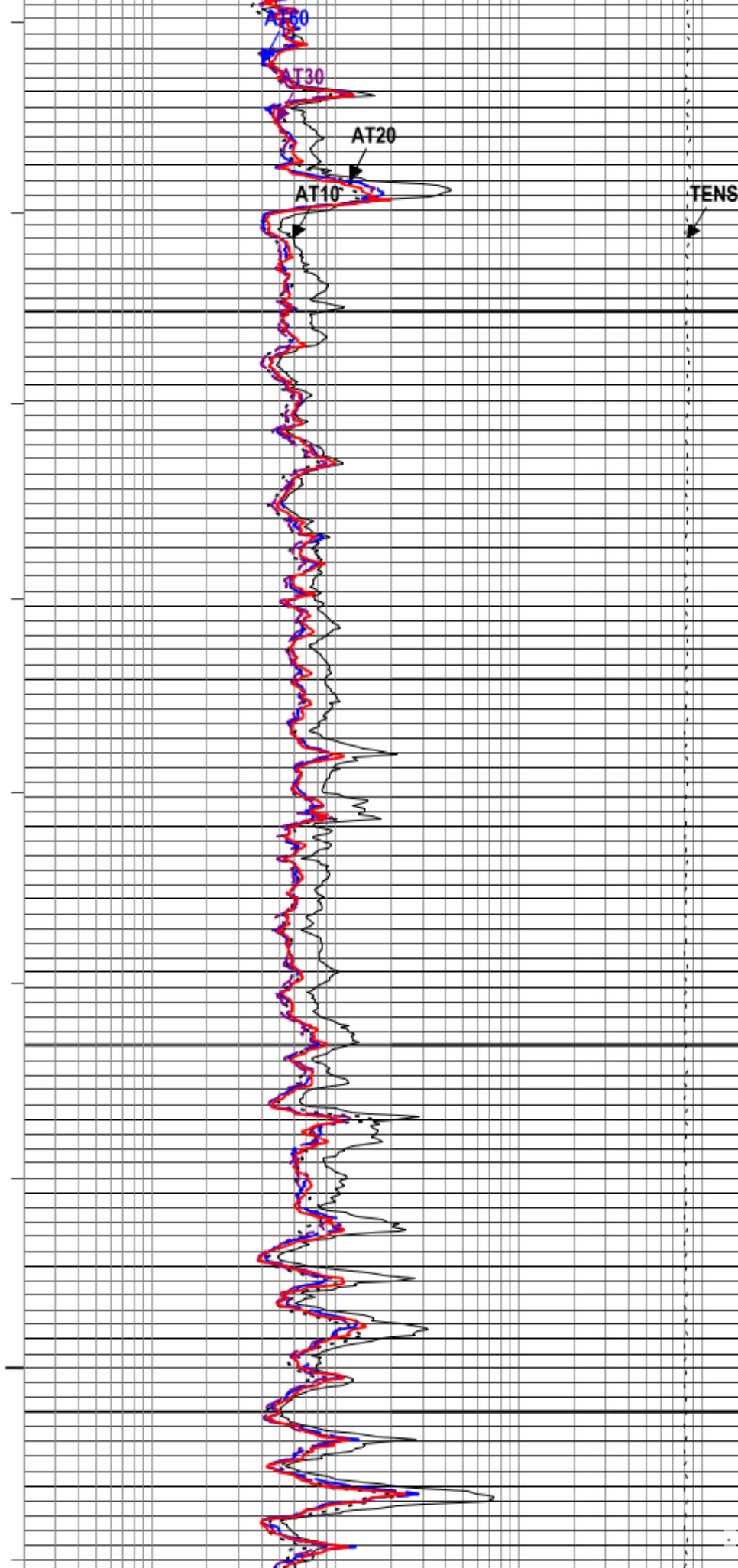
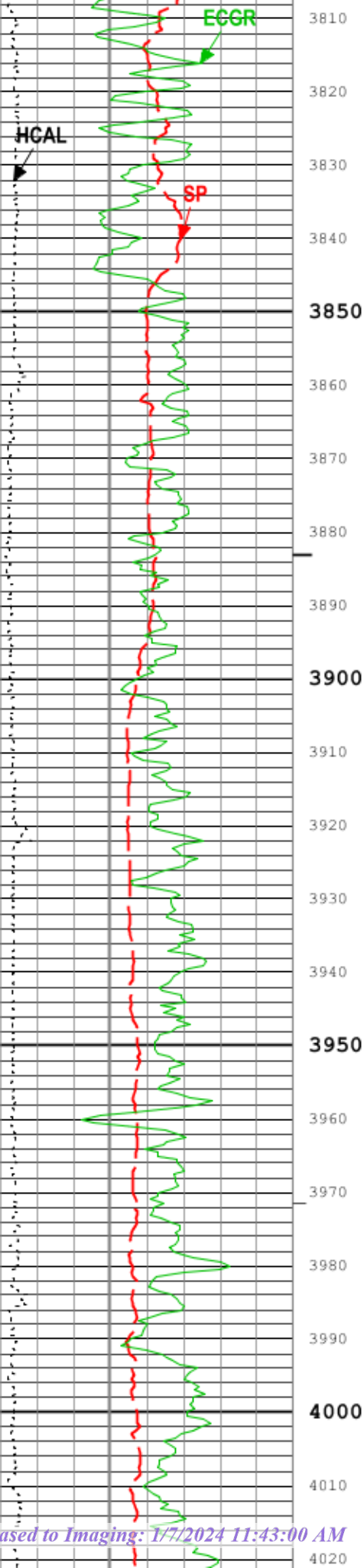












HCAL

SP

ECGR

AT90

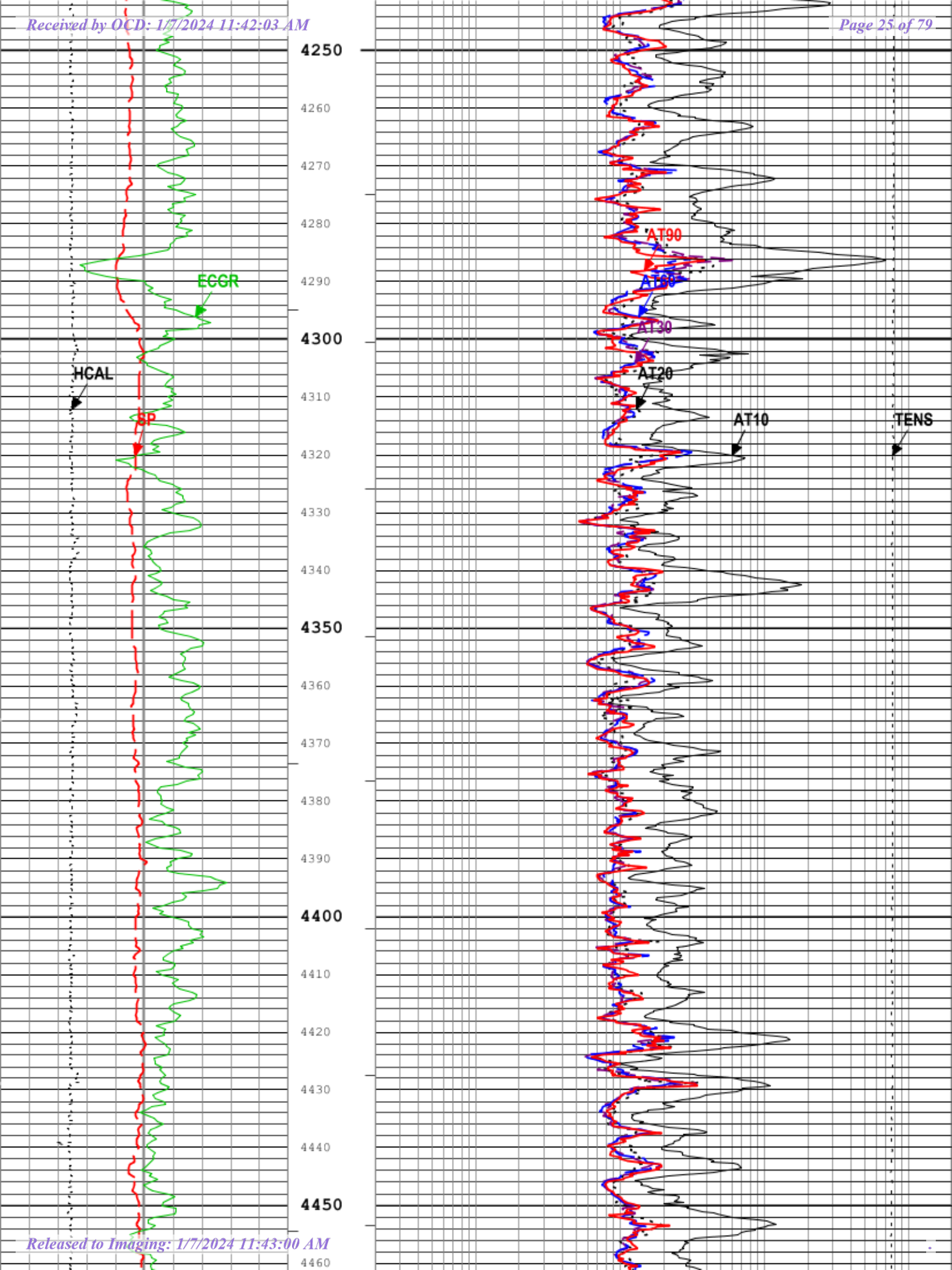
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AT30

AT20

AT10

TENS



HCAL

ECGR

SP

AT90

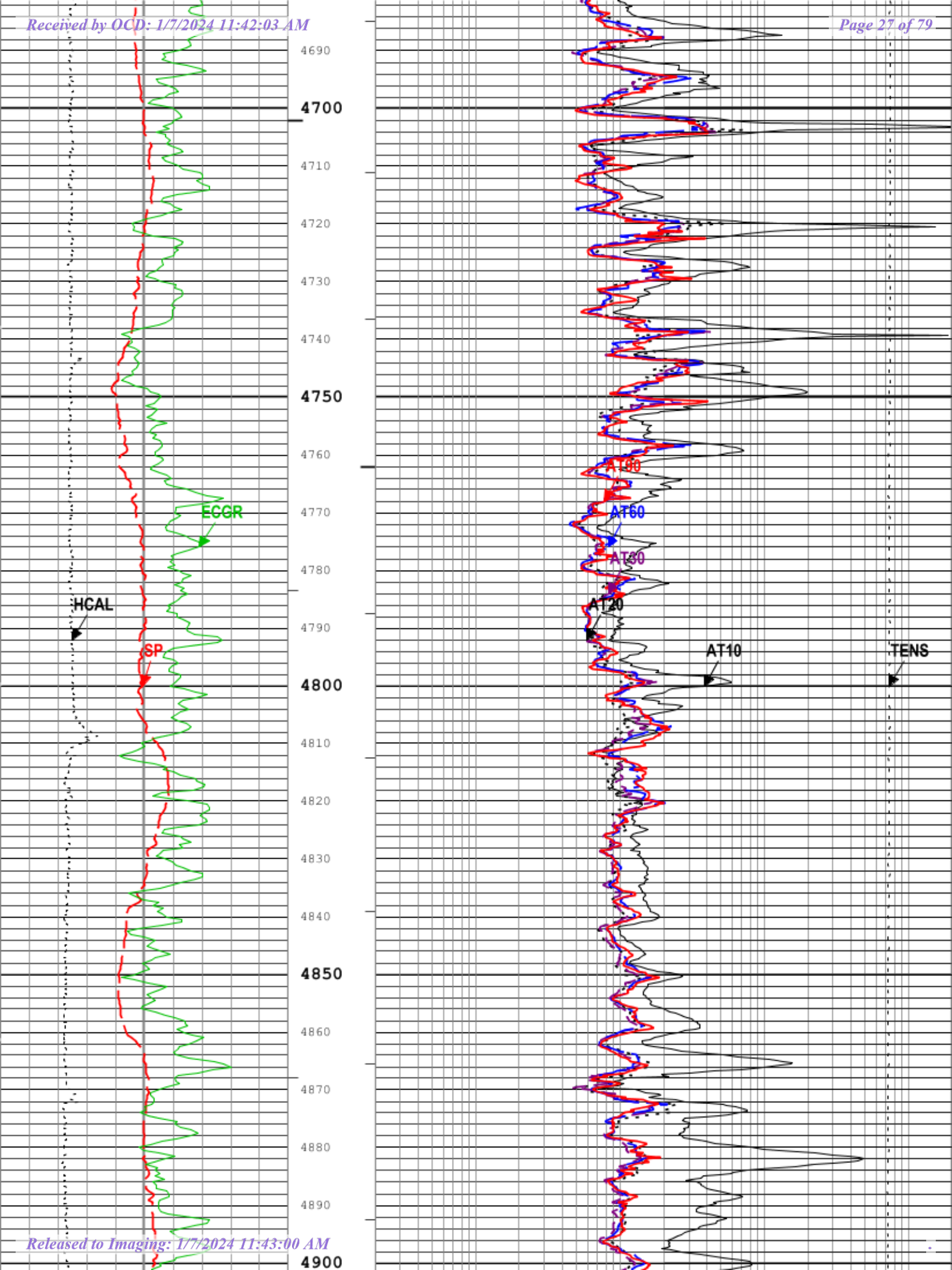
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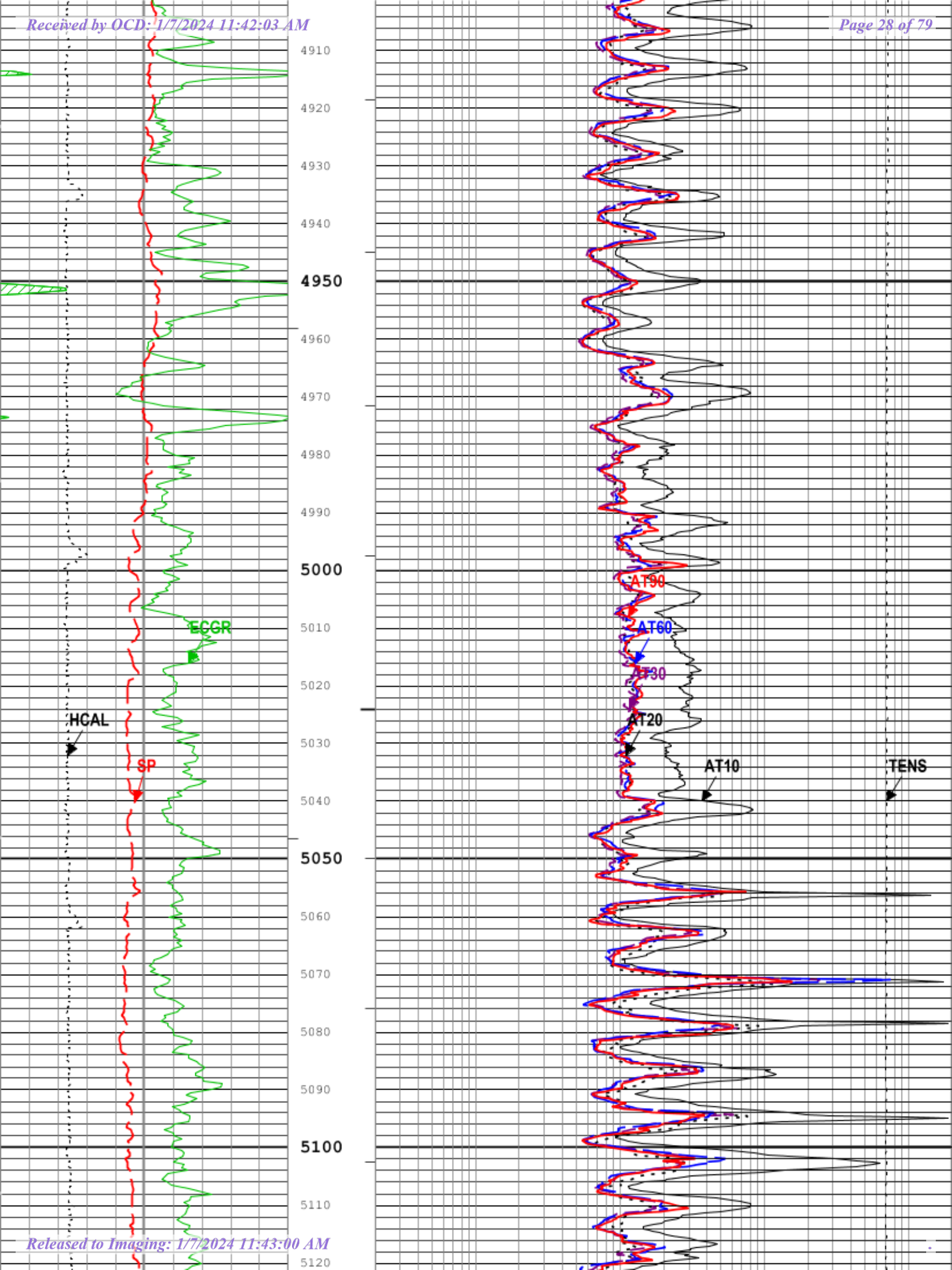
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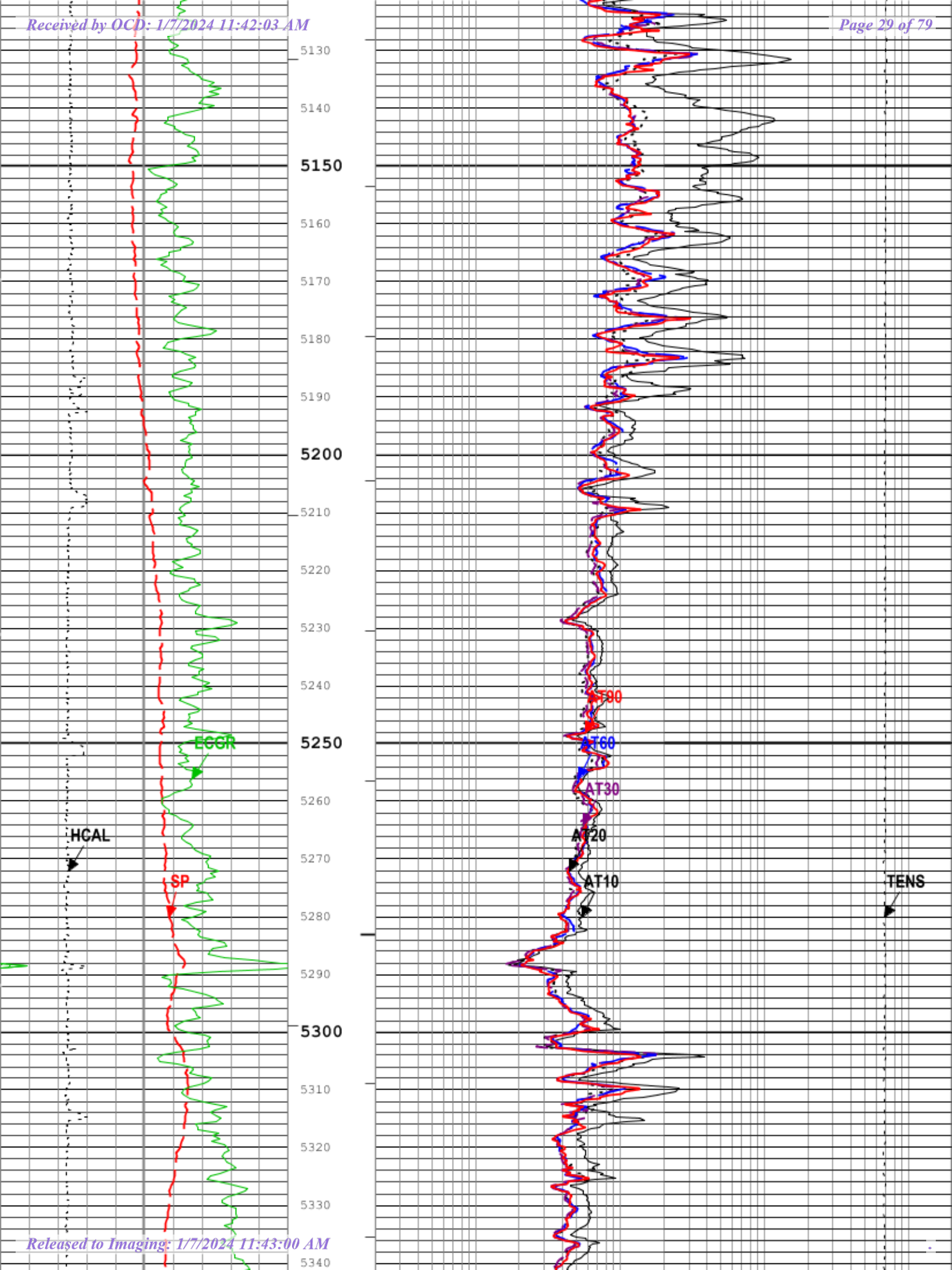
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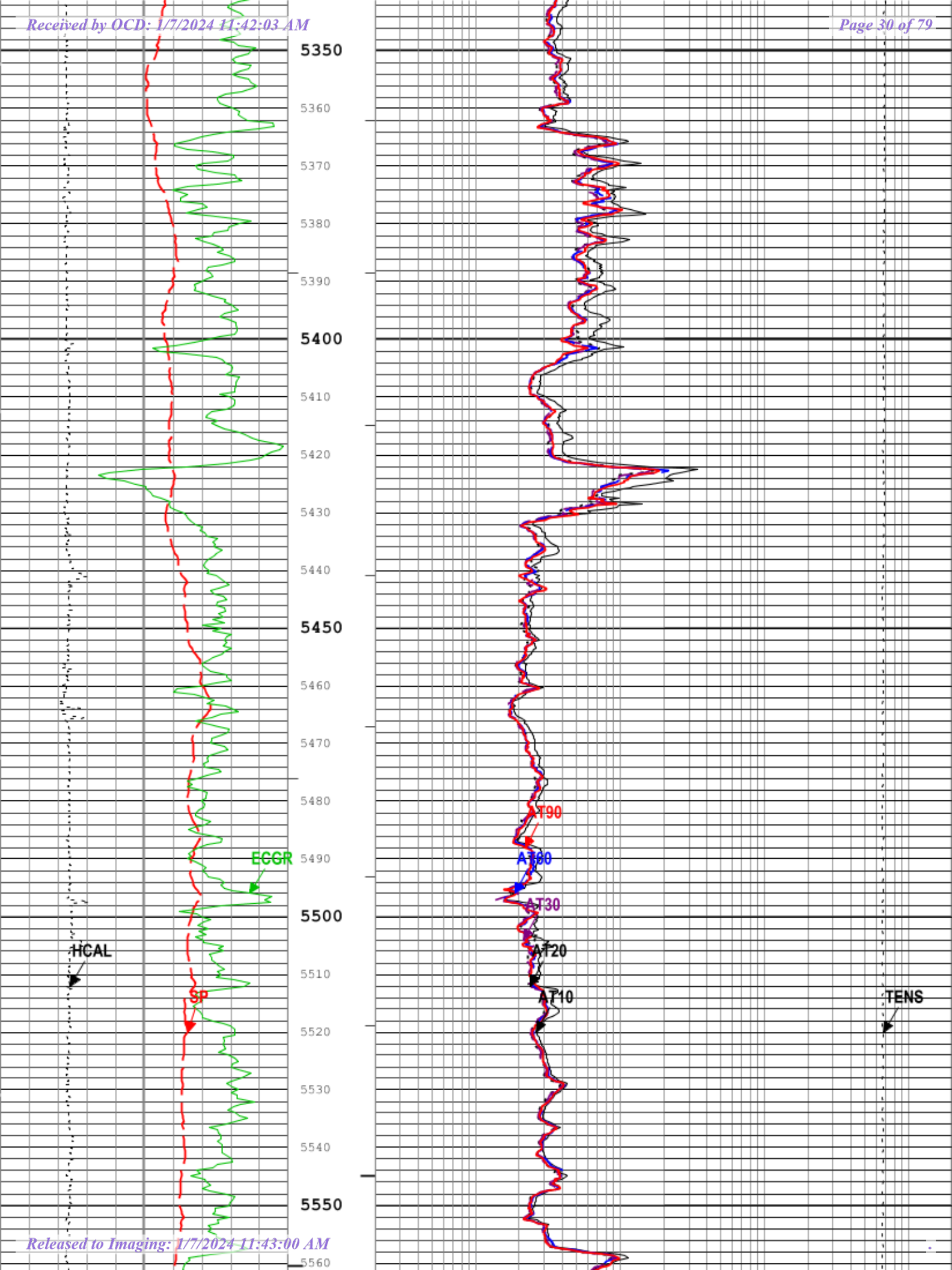
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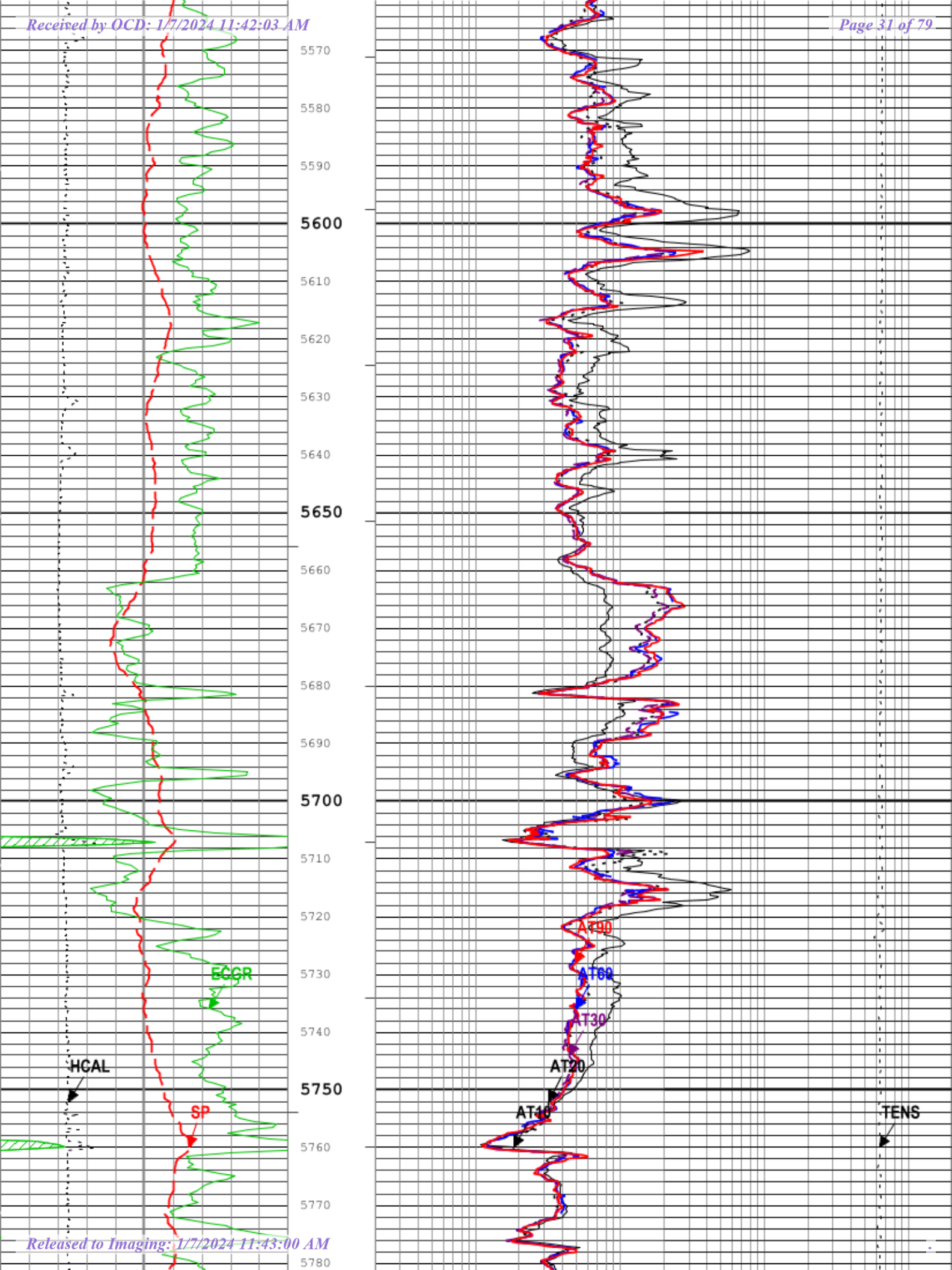
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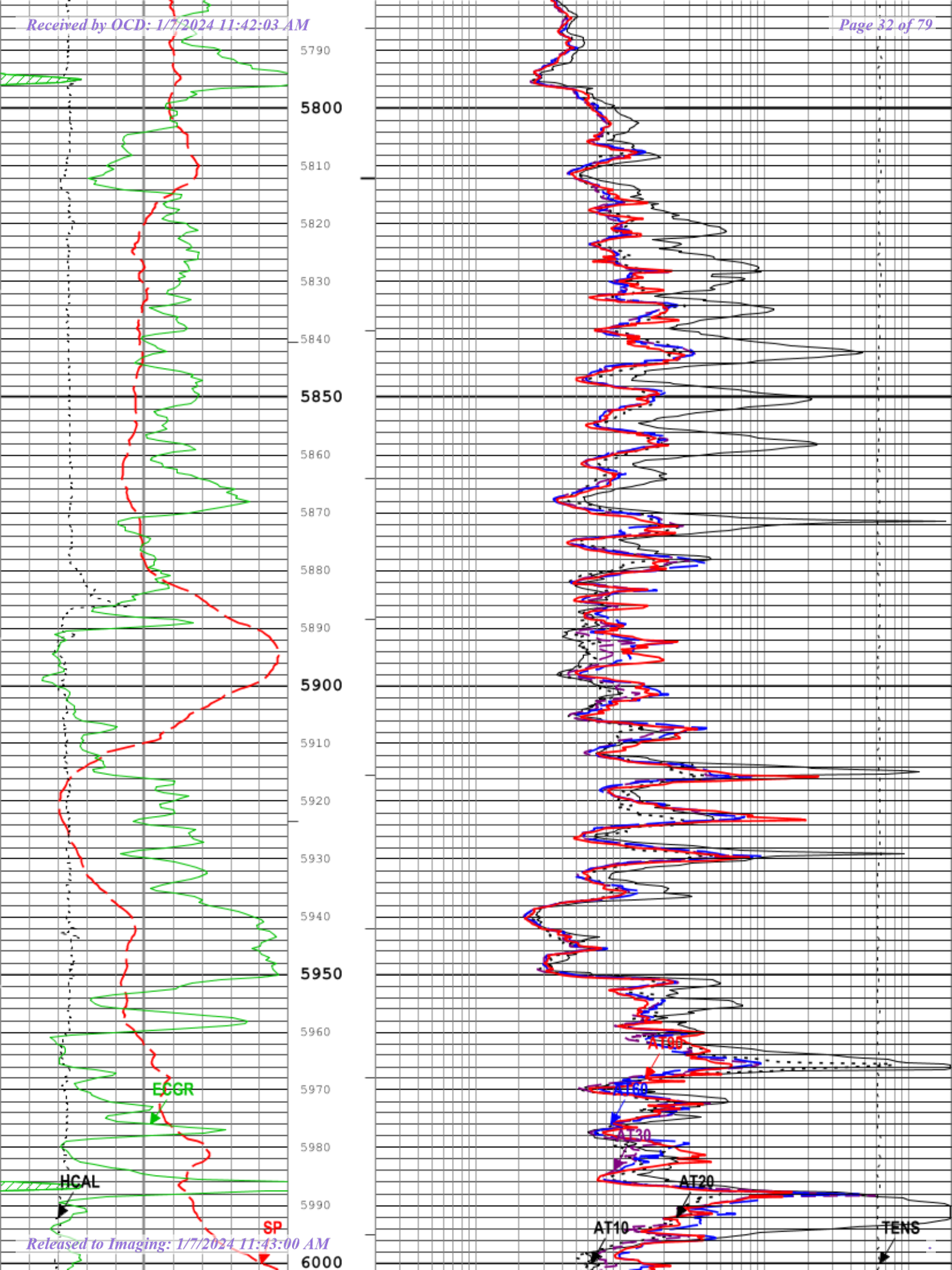


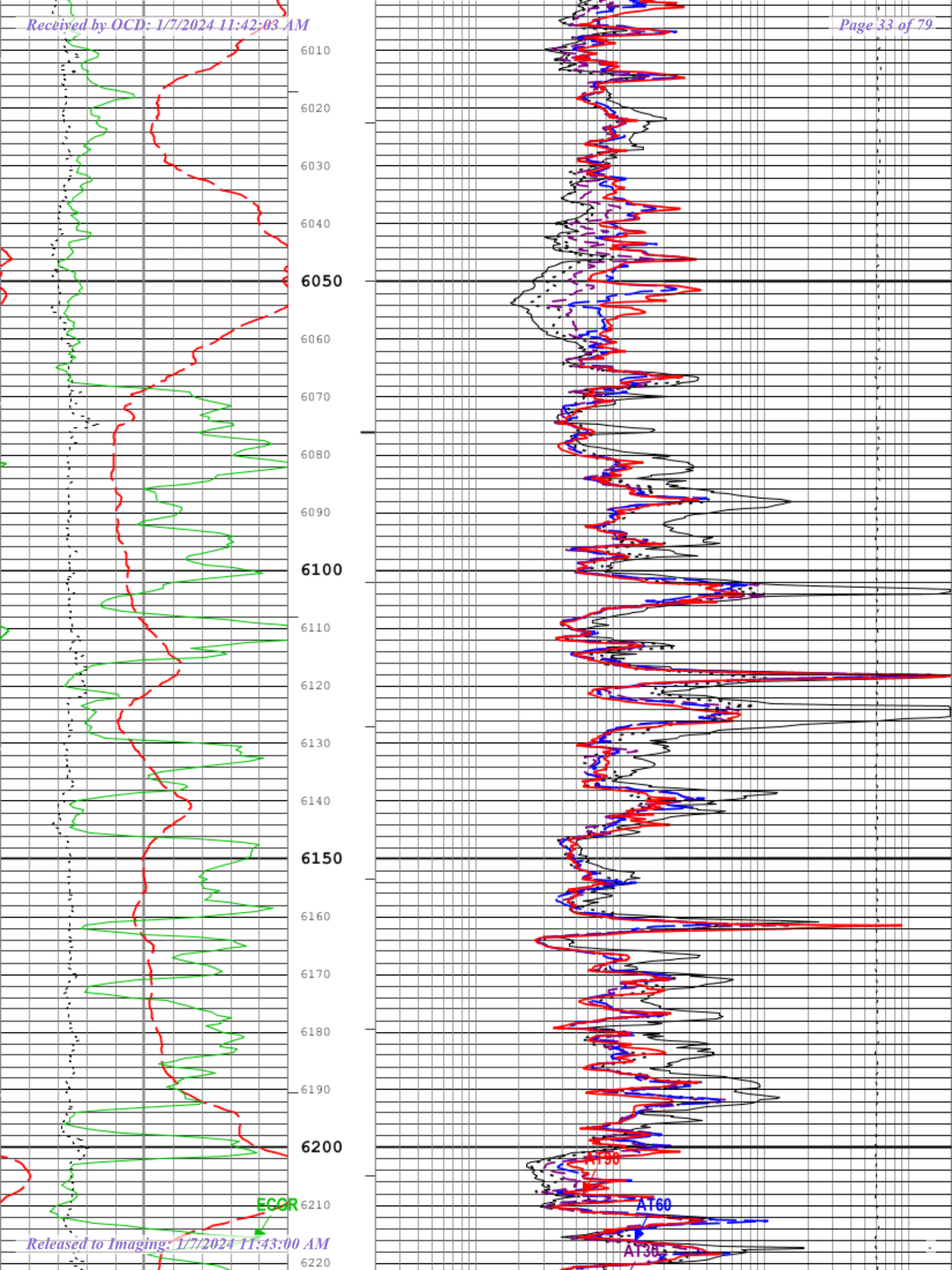




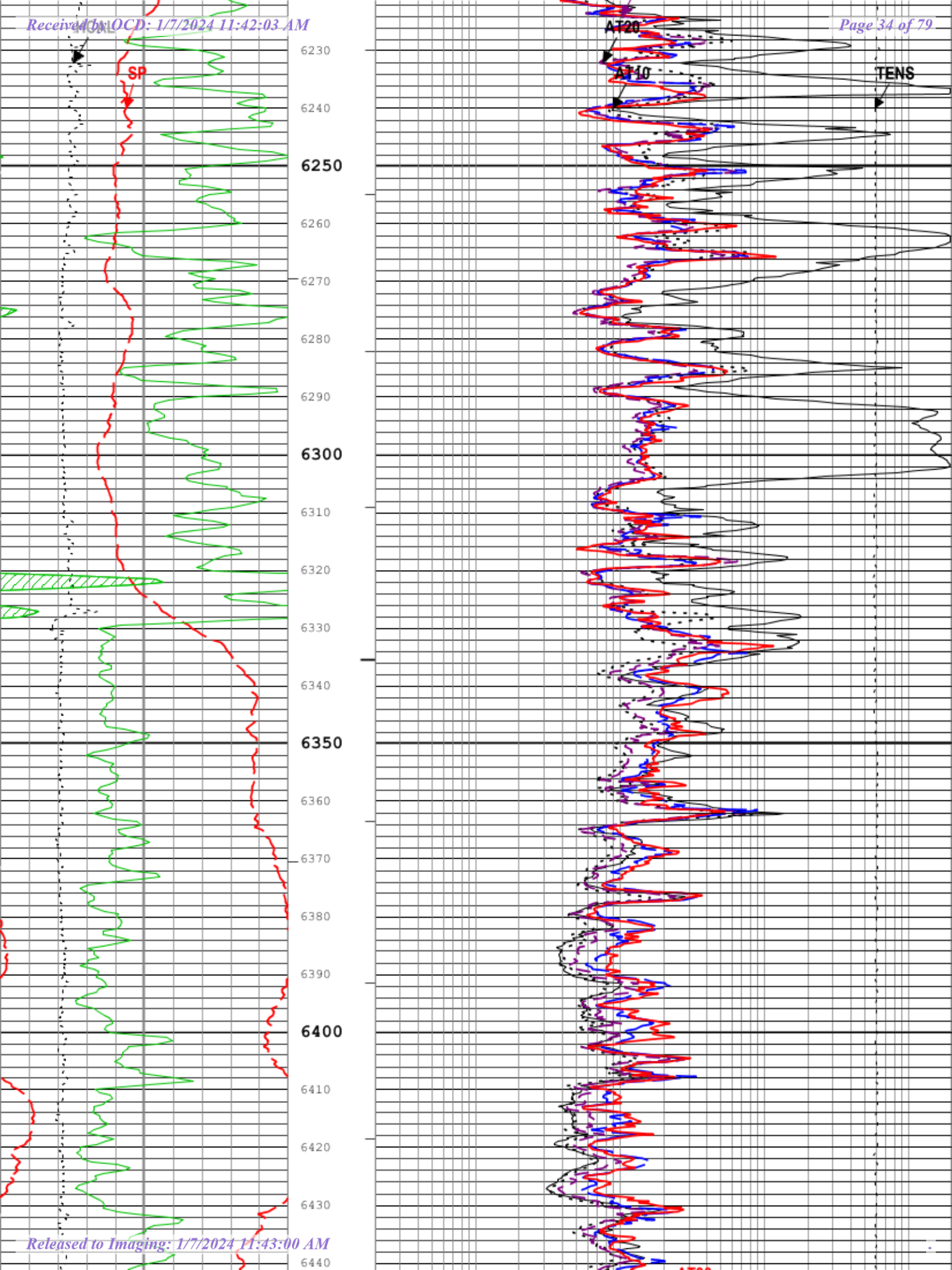


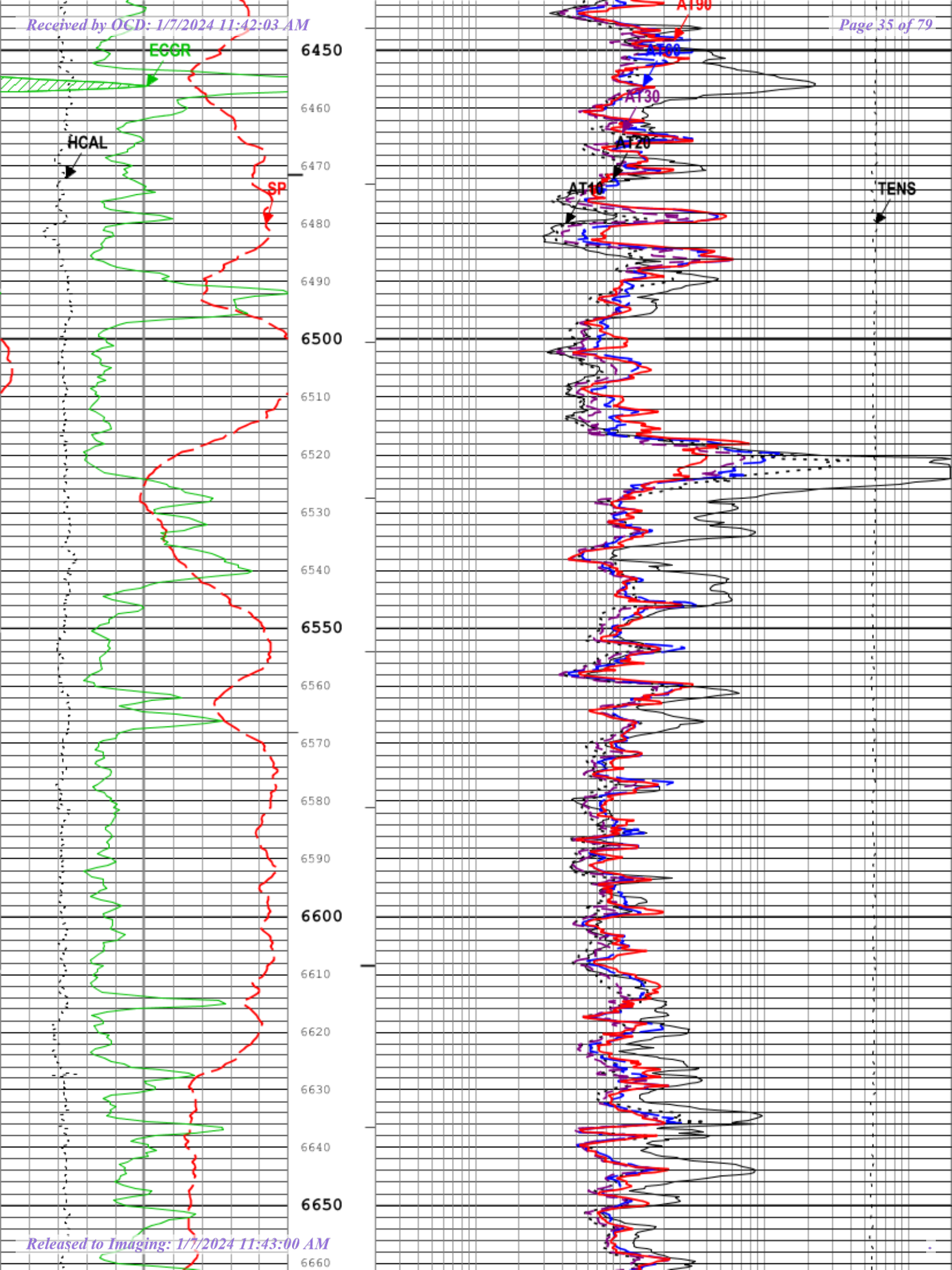


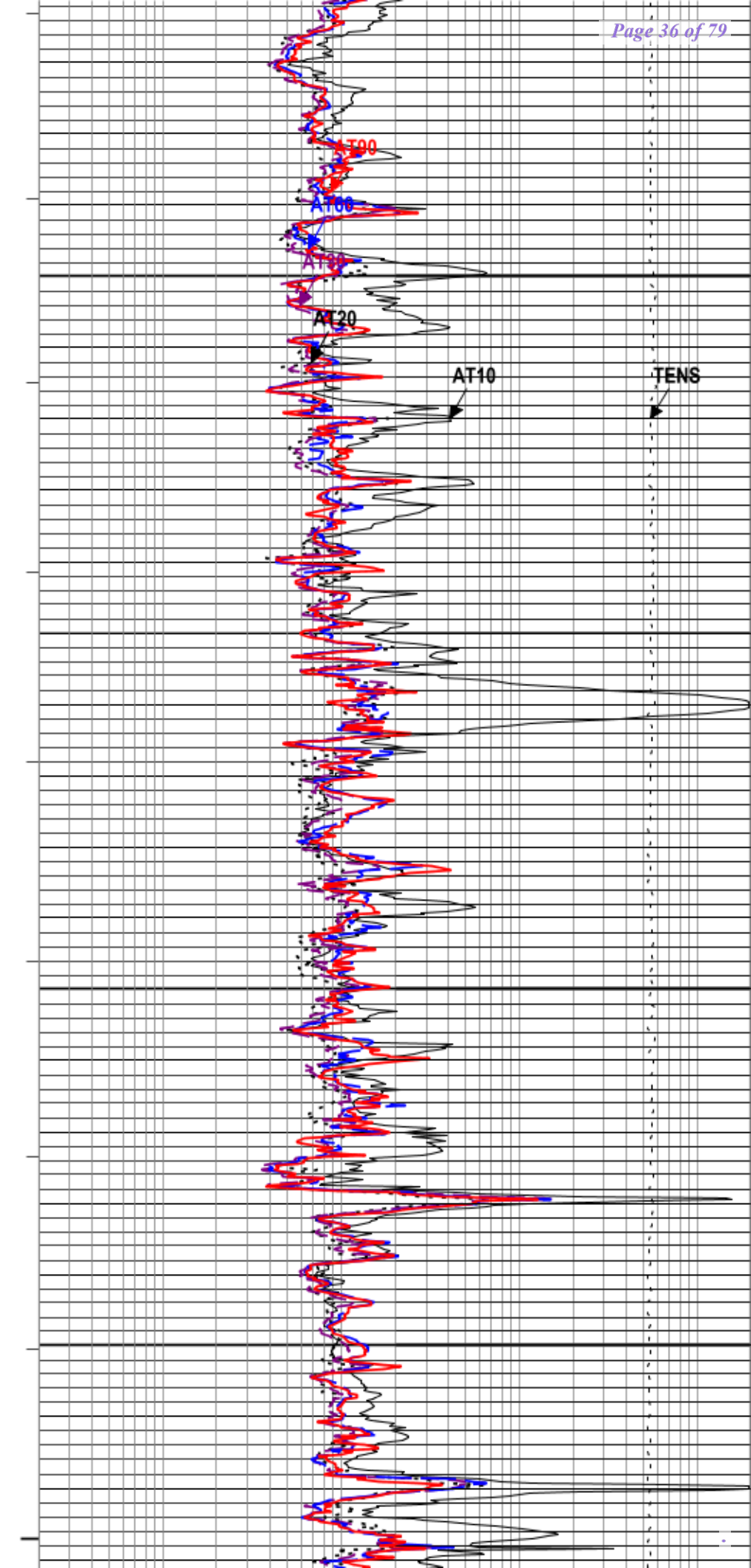
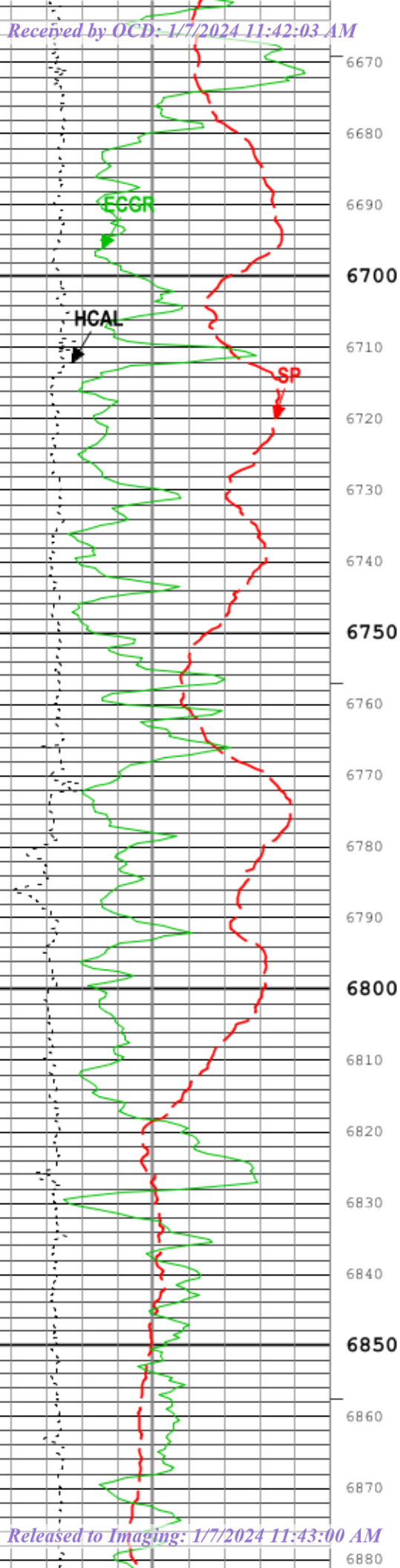


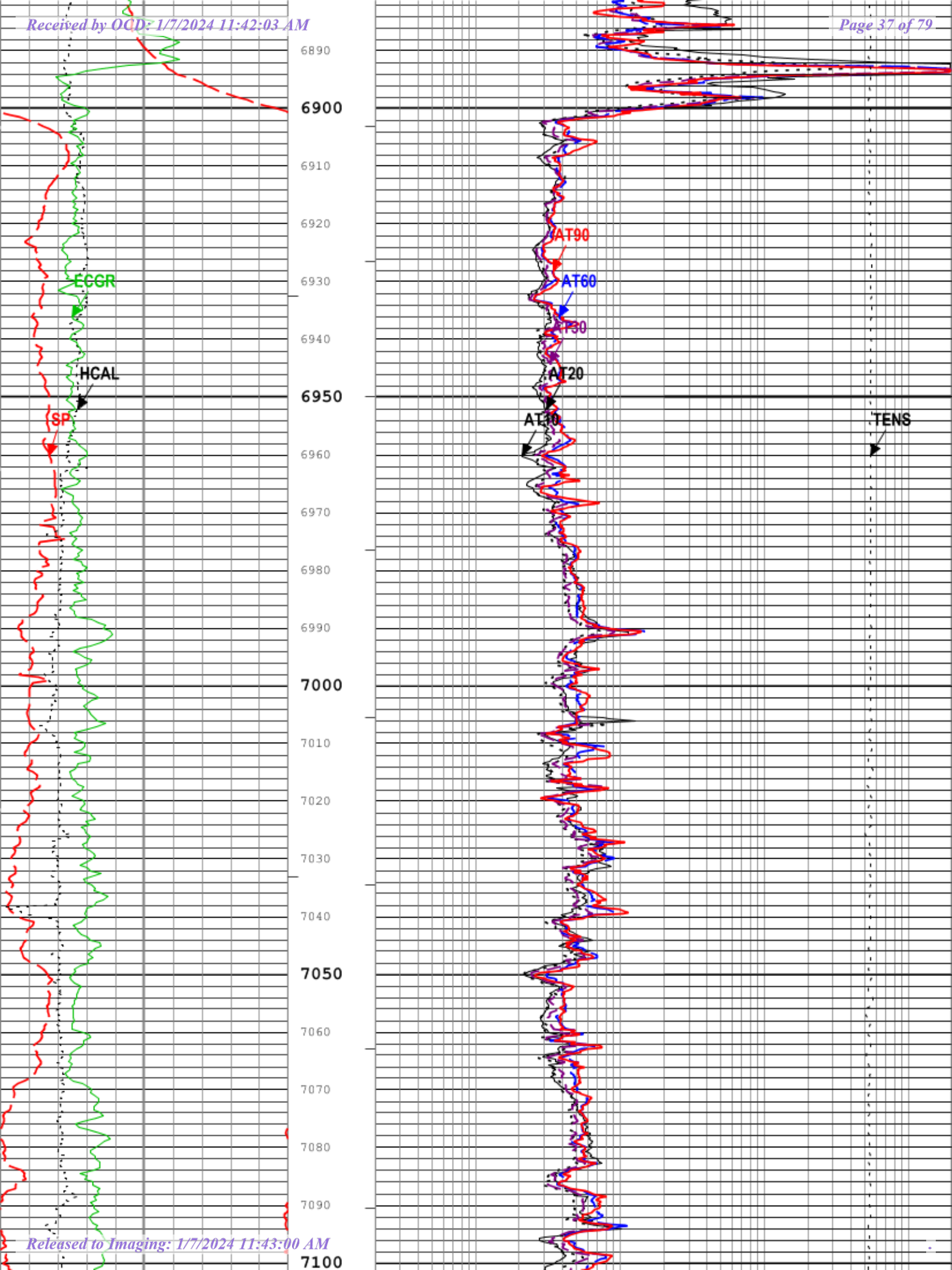


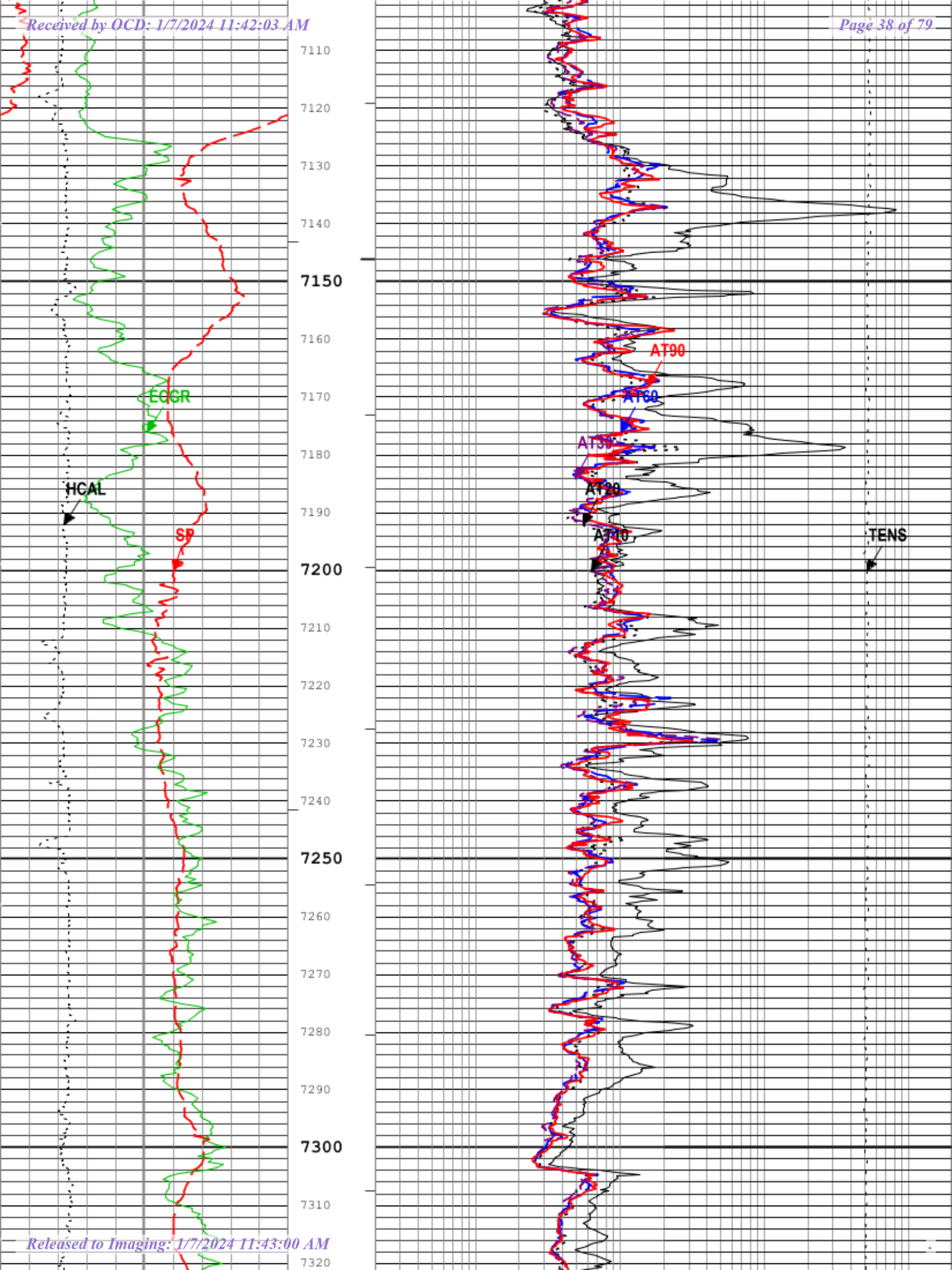
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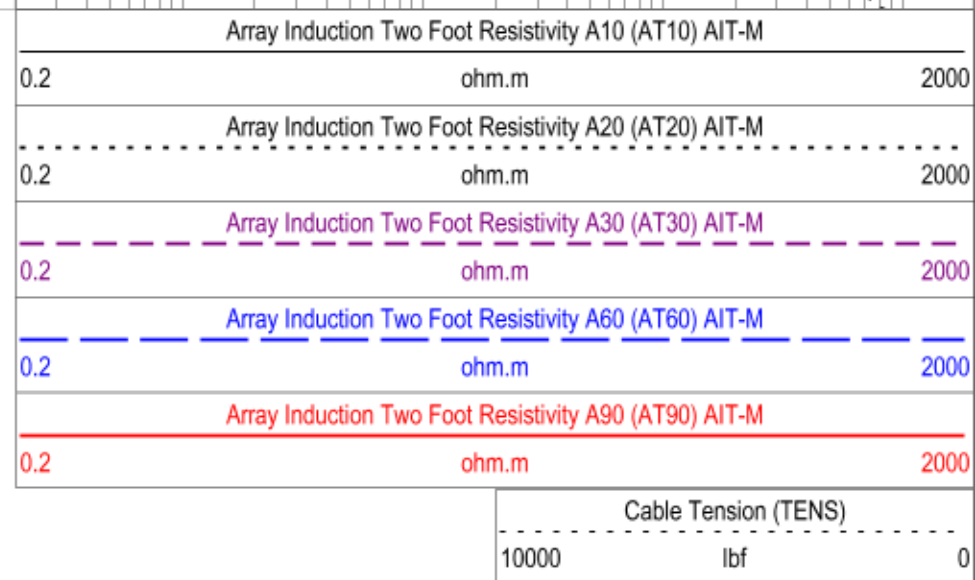
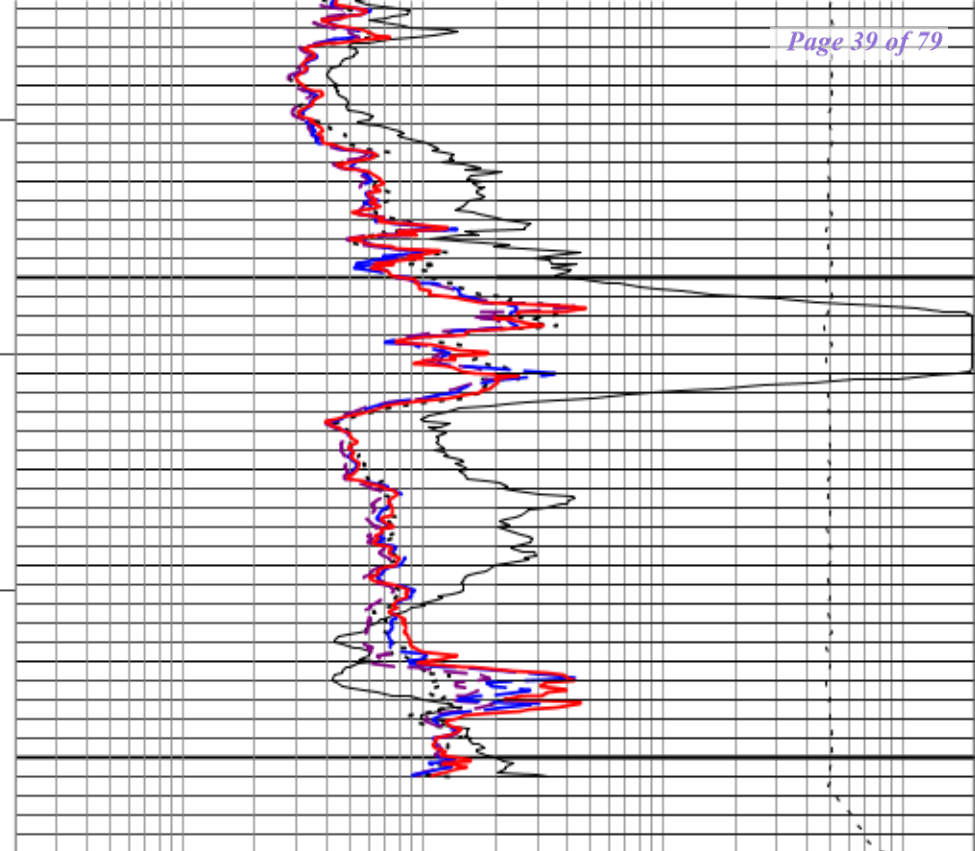
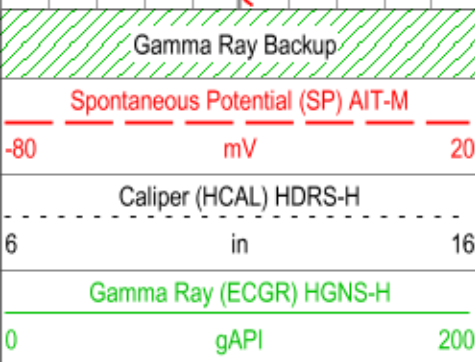
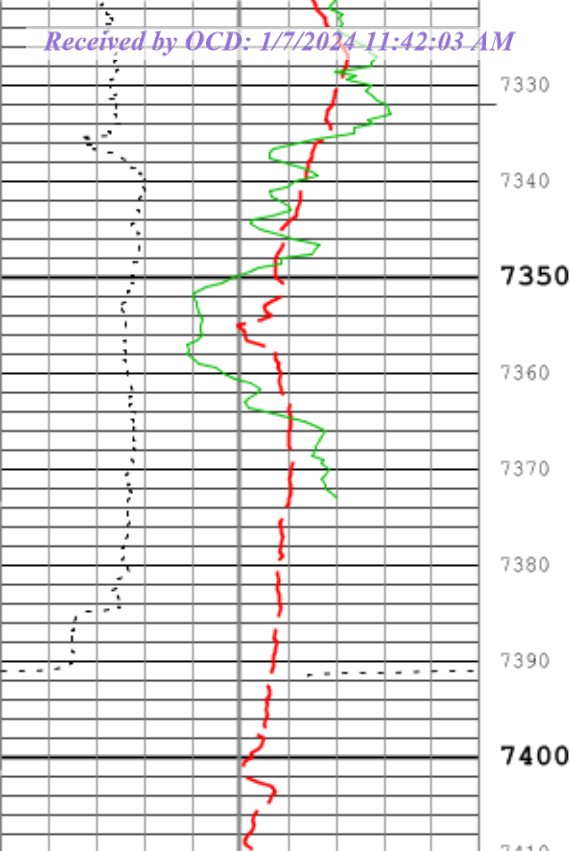












ICV - Integrated Cement Volume every 100.00 (ft3)

TIME_1900 - Time Marked every 60.00 (s)

ICV - Integrated Cement Volume every 10.00 (ft3)

IHV - Integrated Hole Volume every 100.00 (ft3)

IHV - Integrated Hole Volume every 10.00 (ft3)

Description: AIT Basic Log Two Format: Log (Induction-5) Index Scale: 5 in per 100 ft Index Unit: ft Index Type: Measured Depth Creation Date: 02-Oct-2018 17:50:52

Channel Processing Parameters

One: Parameters

Parameter	Description	Tool	Value	Unit
ABHM	Array Induction Borehole Correction Mode	AIT-M	Compute Standoff	
ASTA	Array Induction Tool Standoff	AIT-M	0.6	in
BARI(ISSBAR)	Barite Mud Presence Flag	Borehole	No	
BHS	Borehole Status (Open or Cased Hole)	Borehole	Open	
BS	Bit Size	WLSESSION	8.5	in

Tool Control Parameters

Parameter	Description	Tool	Value	Unit
MAX_LOG_SPEED	Toolstring Maximum Logging Speed	WLSESSION	3600	ft/h

5th Induction

Acquisition System	Version
Maxwell 2018 SP2	8.2.104493.3100

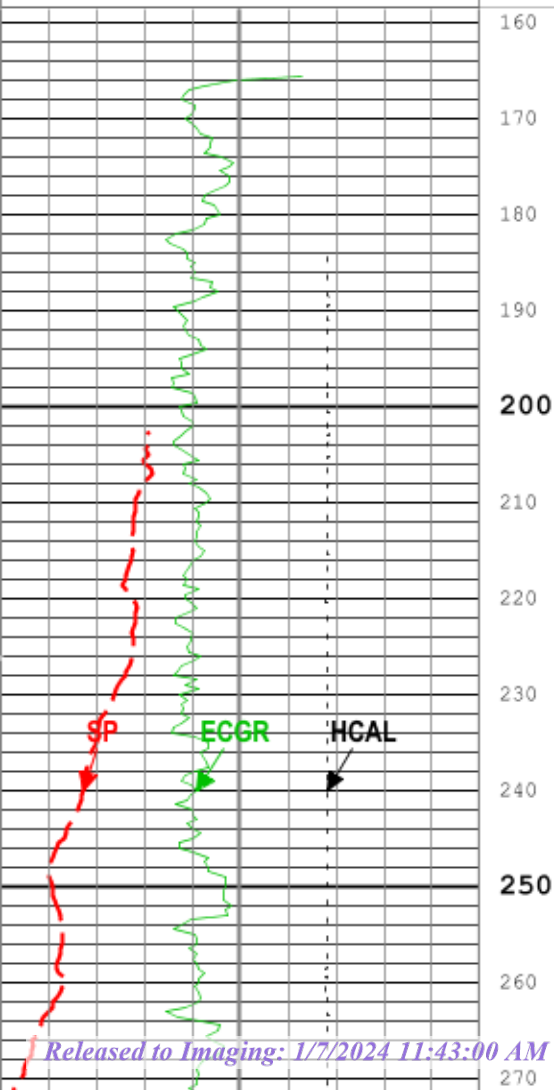
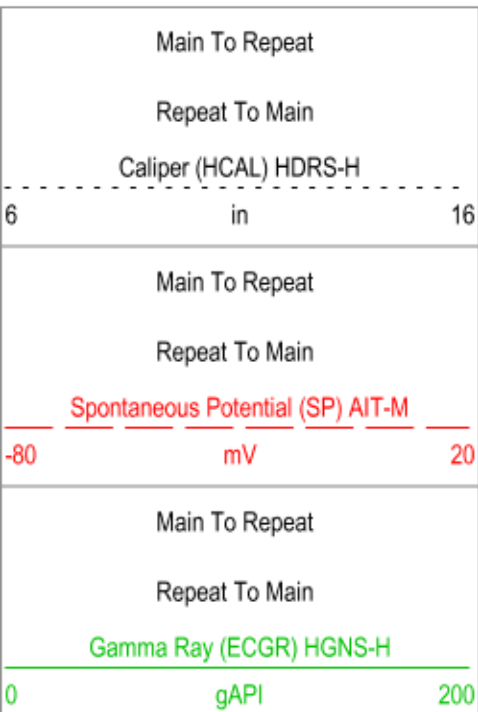
Run Name	Pass Objective	Direction	Top	Bottom	Start	Stop	DSC Mode	Depth Shift	Include Parallel Data
One	Log[2]:Up	Up	7077.42 ft	7409.50 ft	02-Oct-2018 3:00:48 PM	02-Oct-2018 3:06:27 PM	ON	3.12 ft	Yes
One	Log[4]:Up	Up	202.25 ft	7409.99 ft	02-Oct-2018 3:14:11 PM	02-Oct-2018 5:15:36 PM	ON	2.60 ft	Yes

Log Company:Enduring Resources, LLC Well:North Escavada Unit 2207-16B-WSW One: Log[4]:Up:S004

TIME_1900 - Time Marked every 60.00 (s)

0

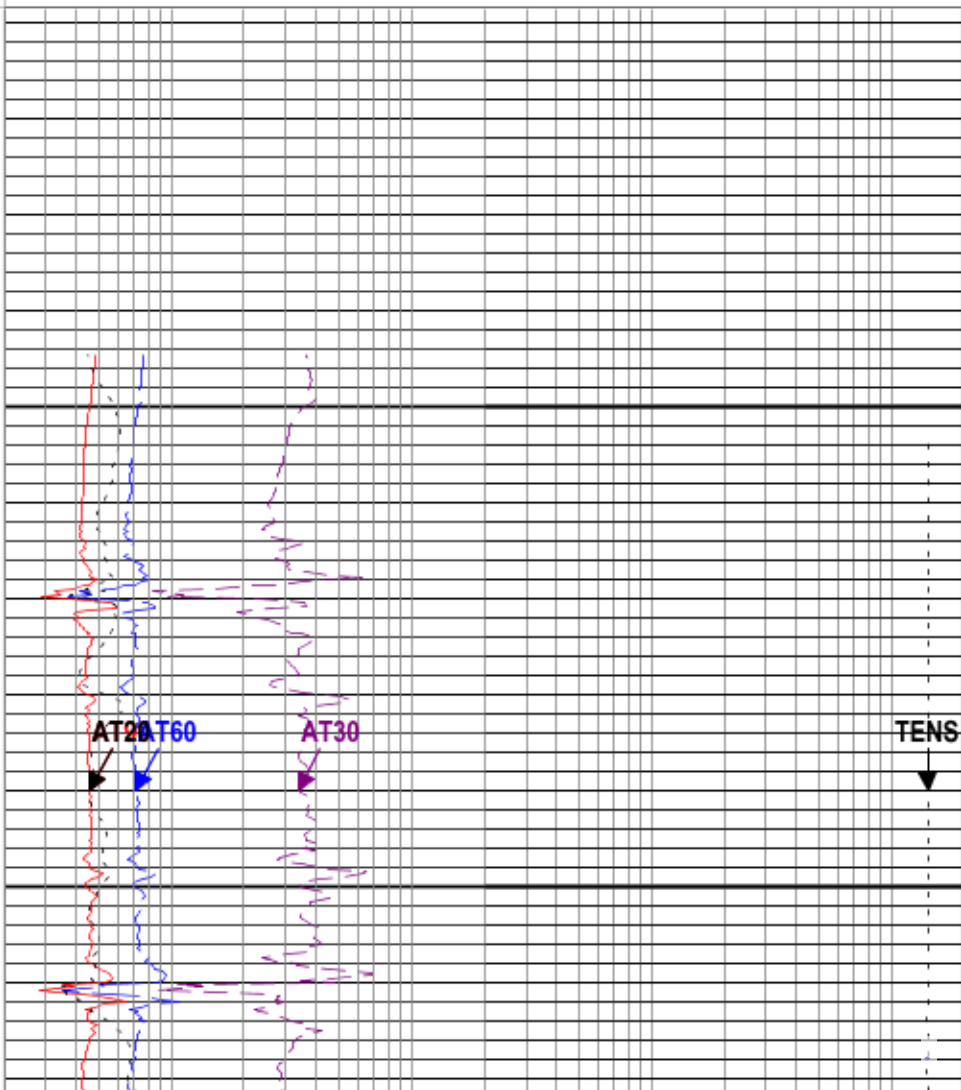
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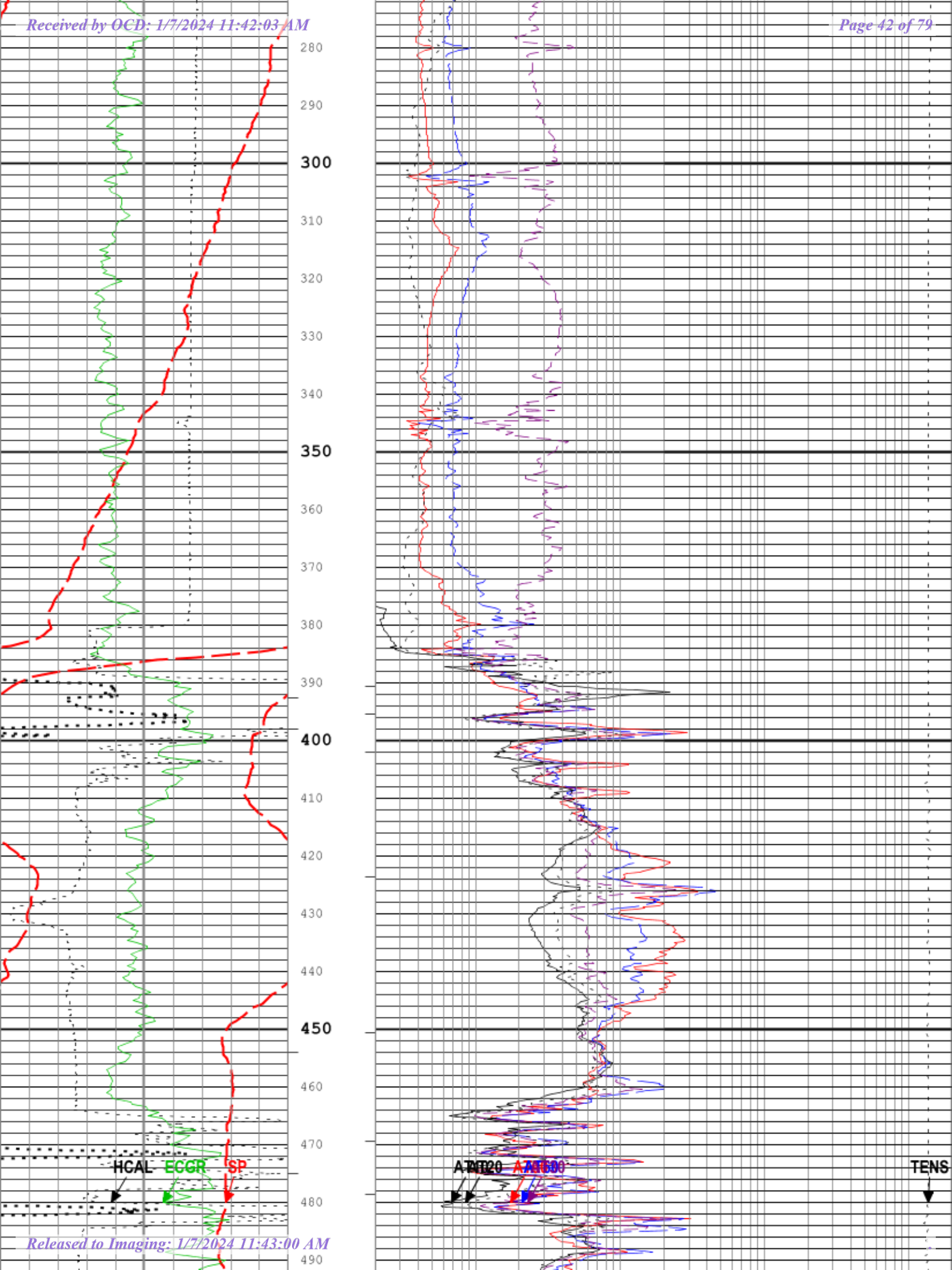


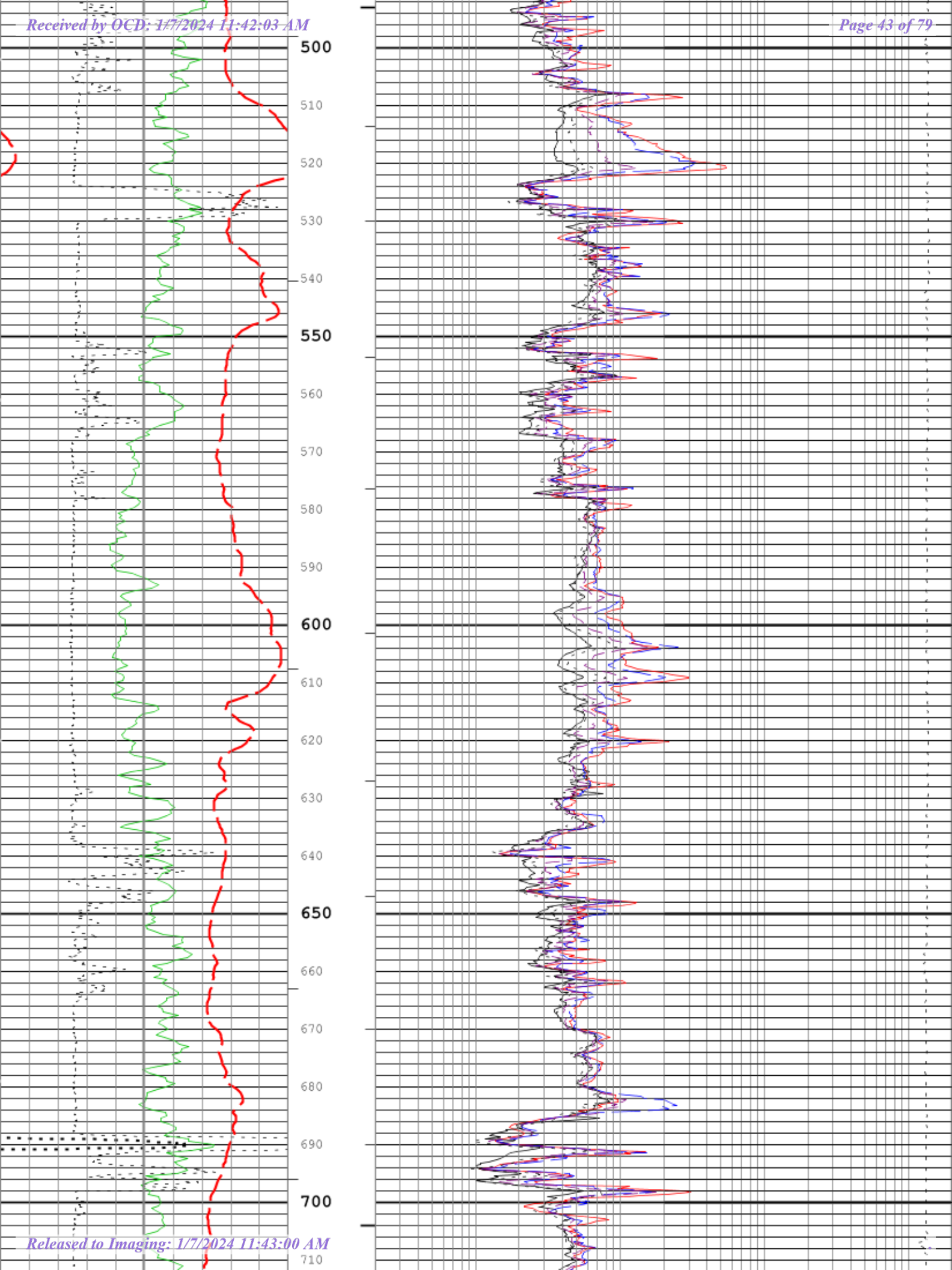
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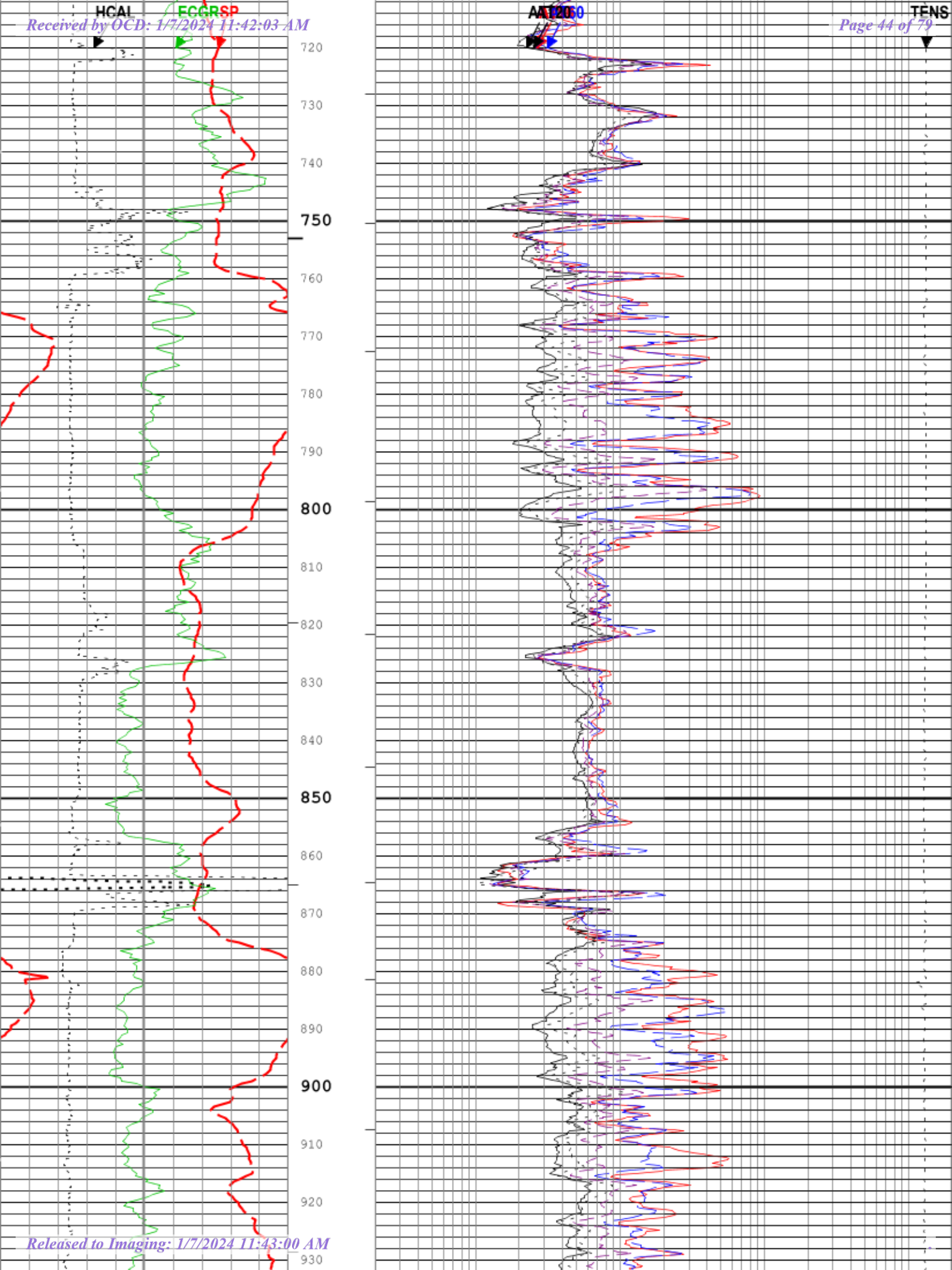
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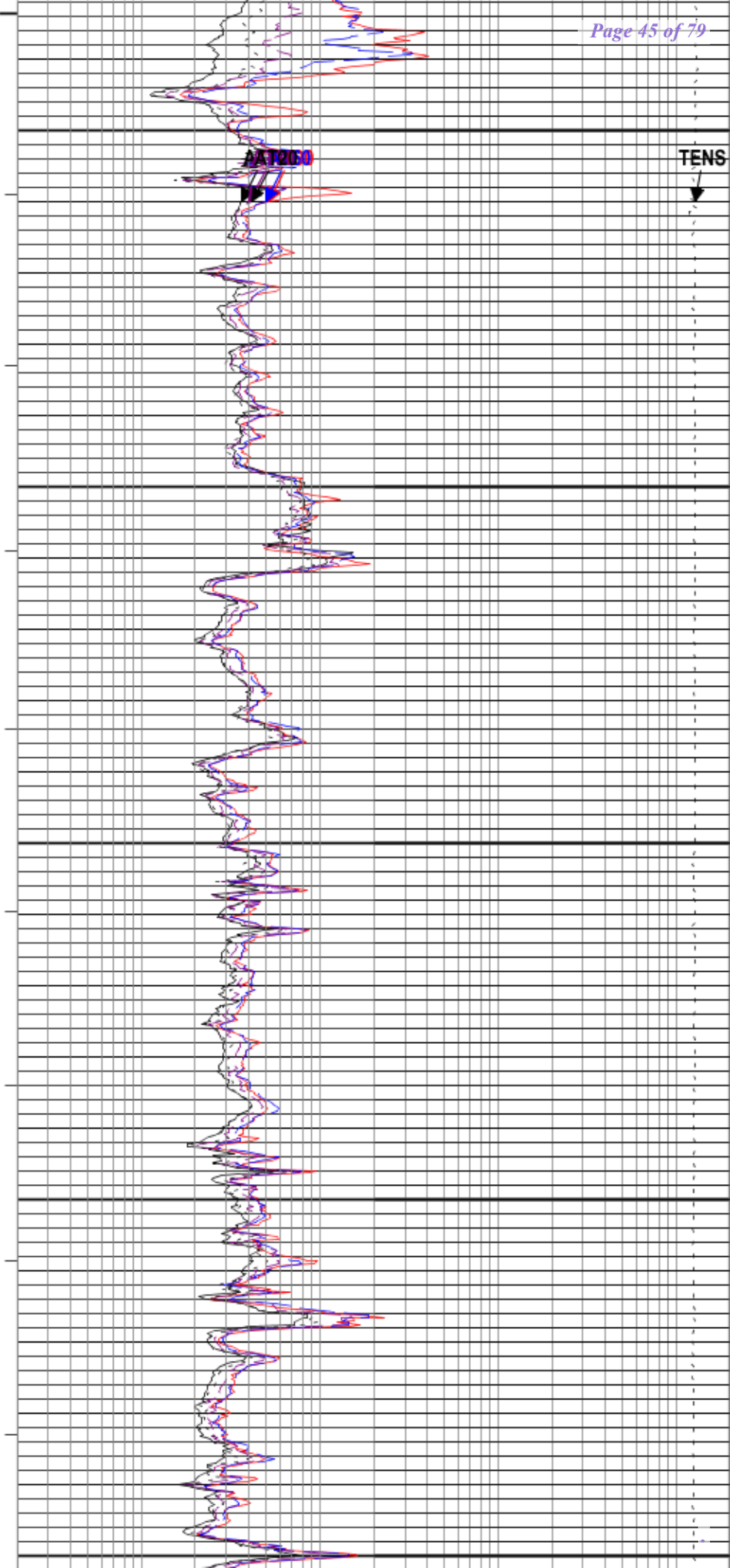
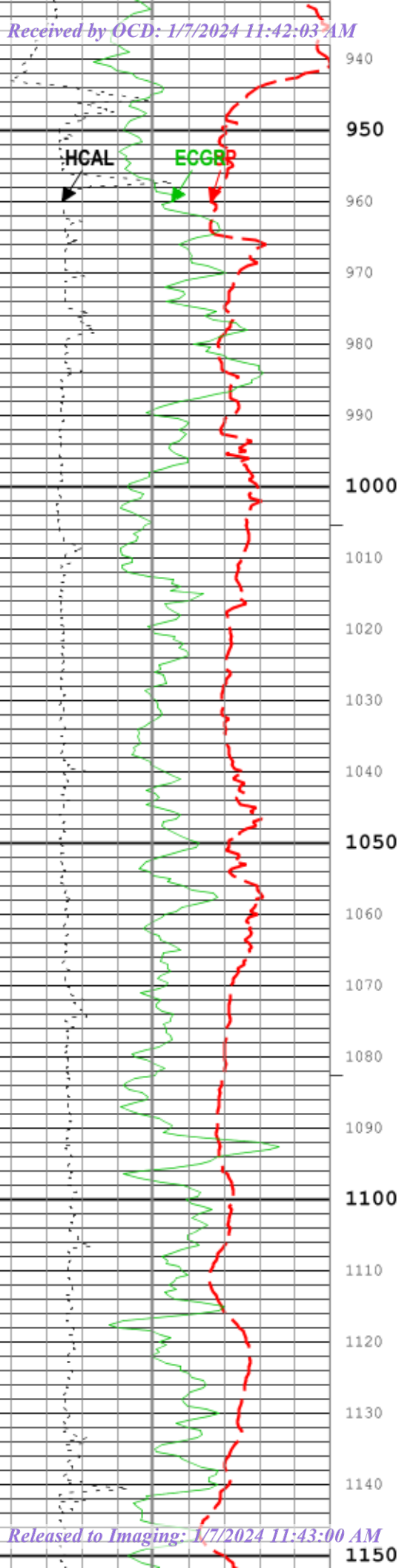
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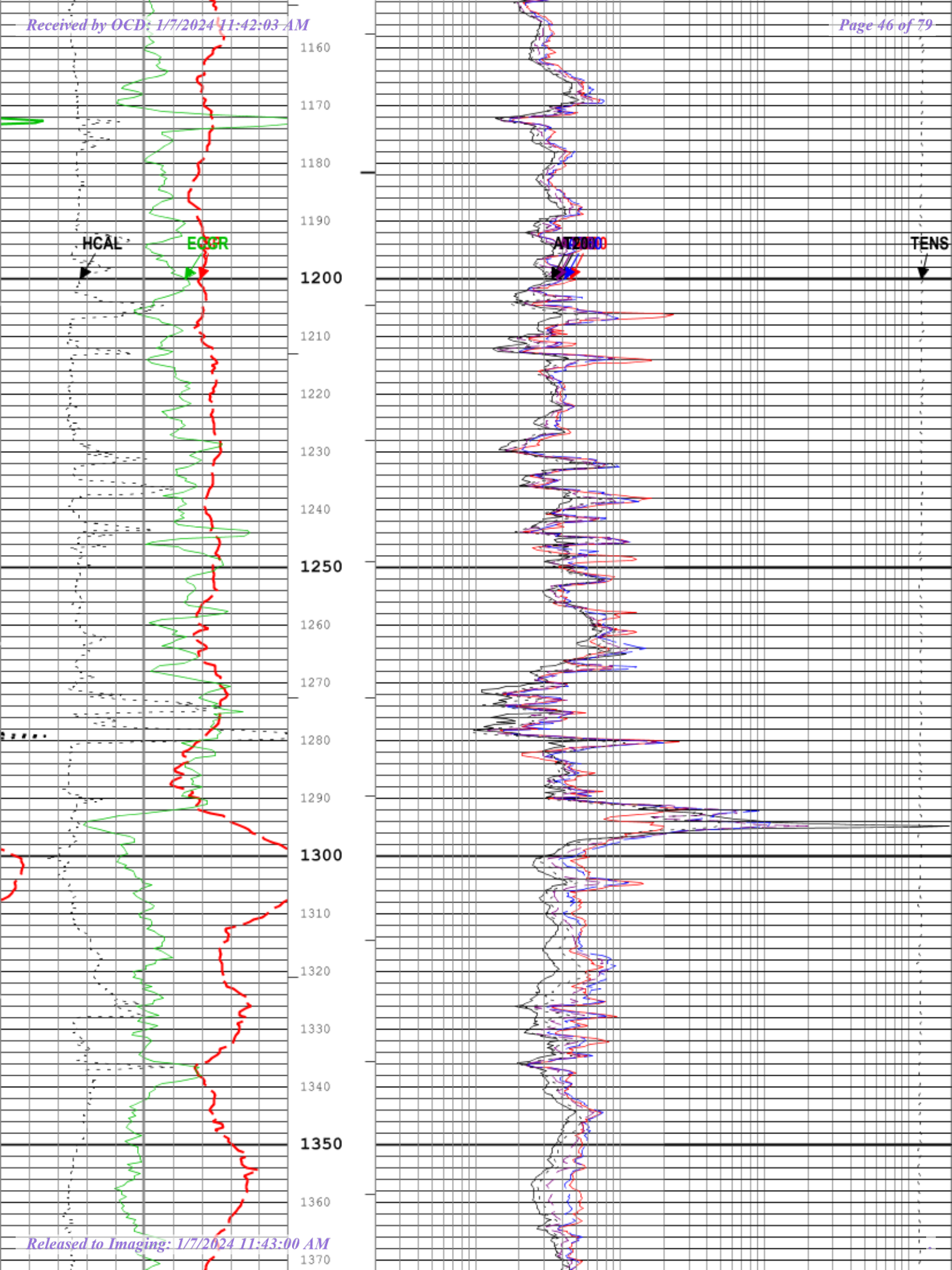


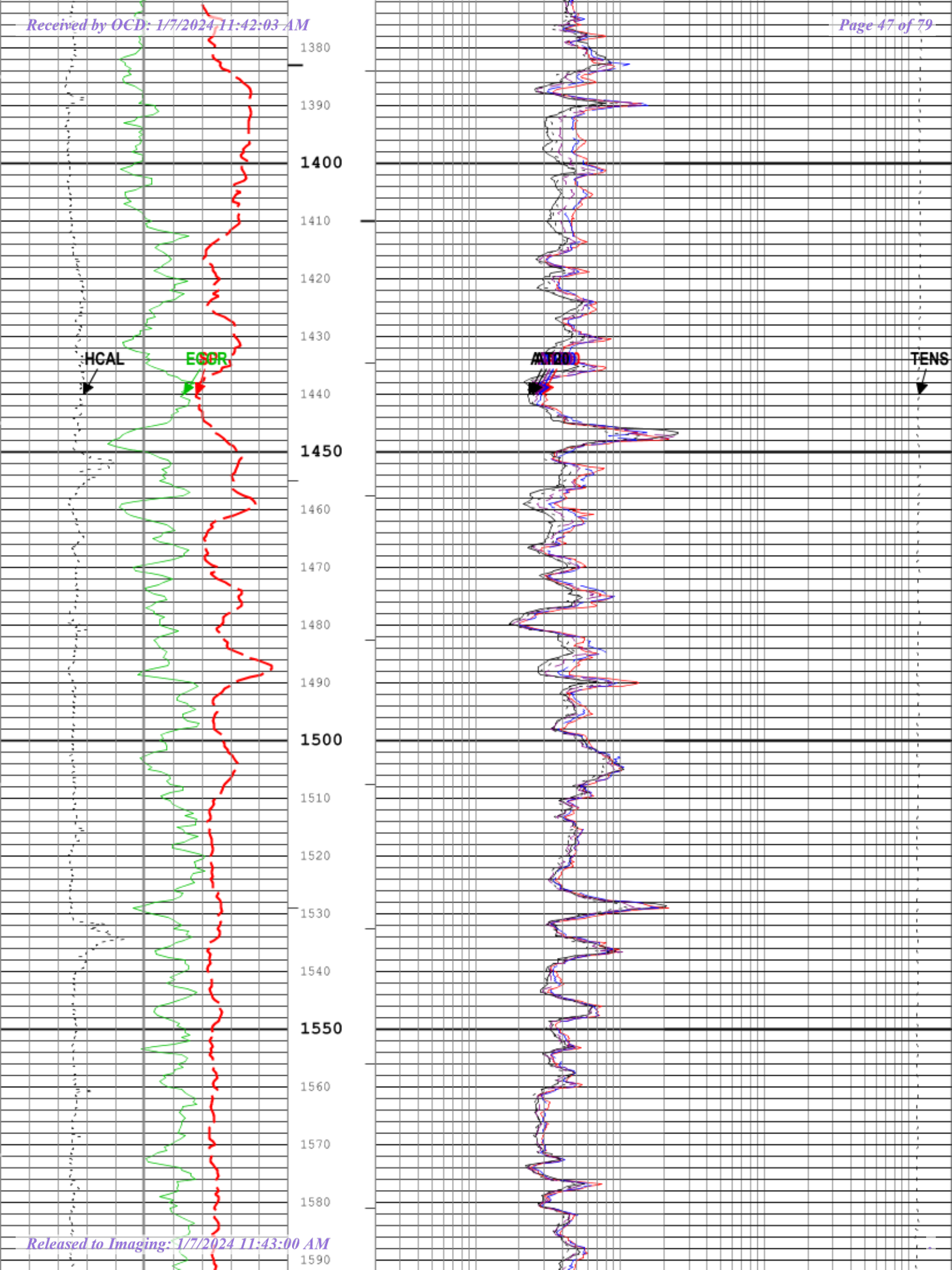


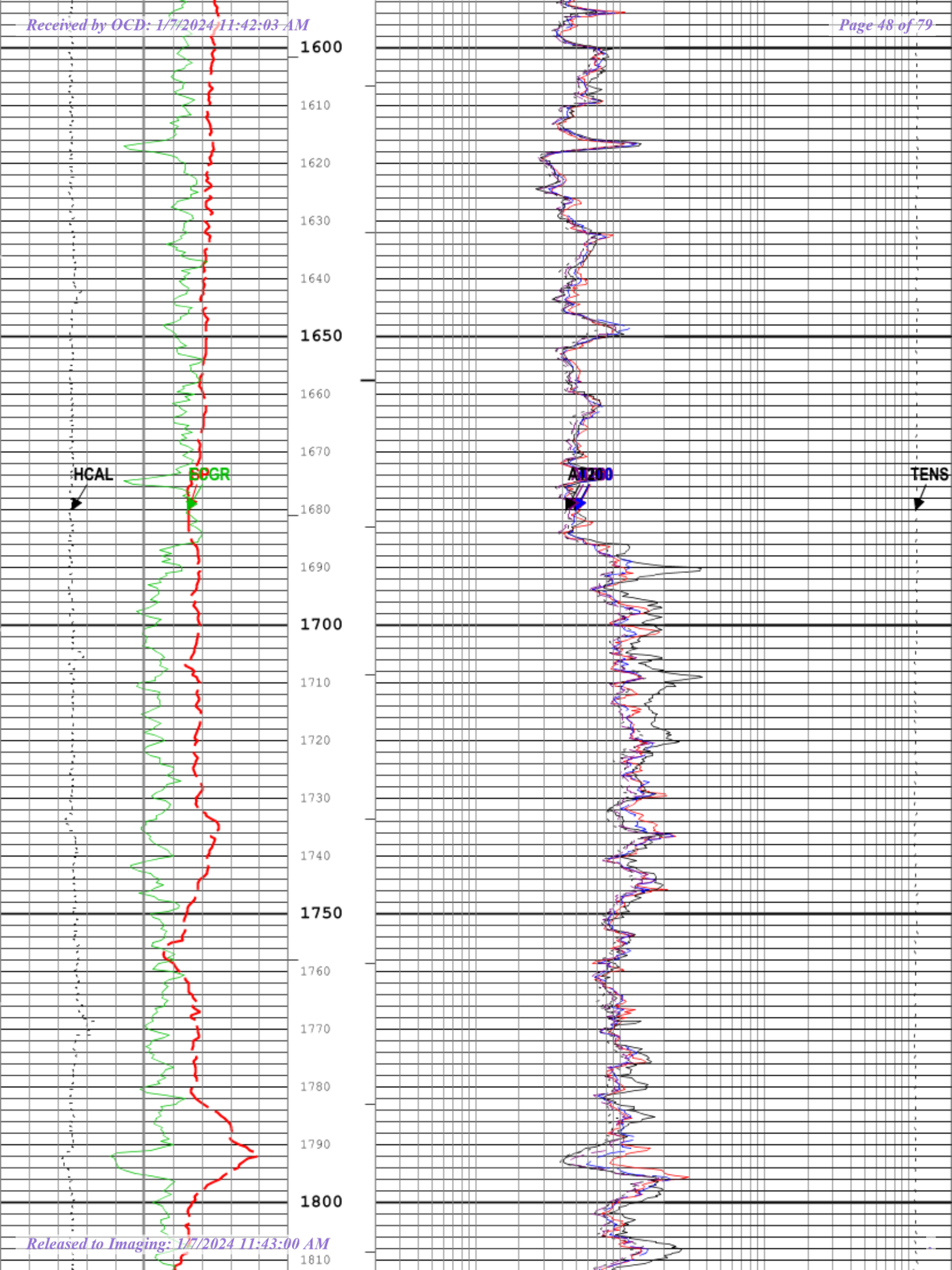


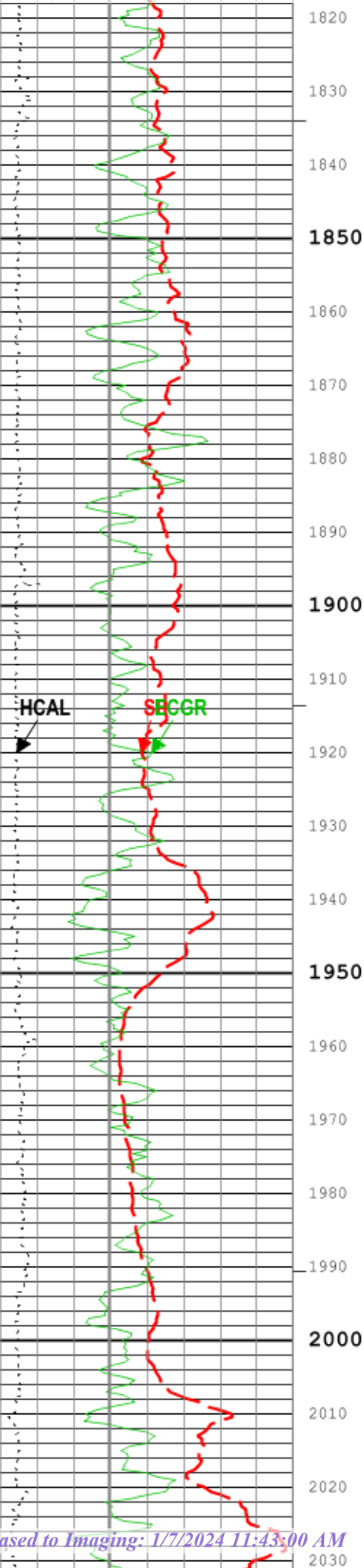




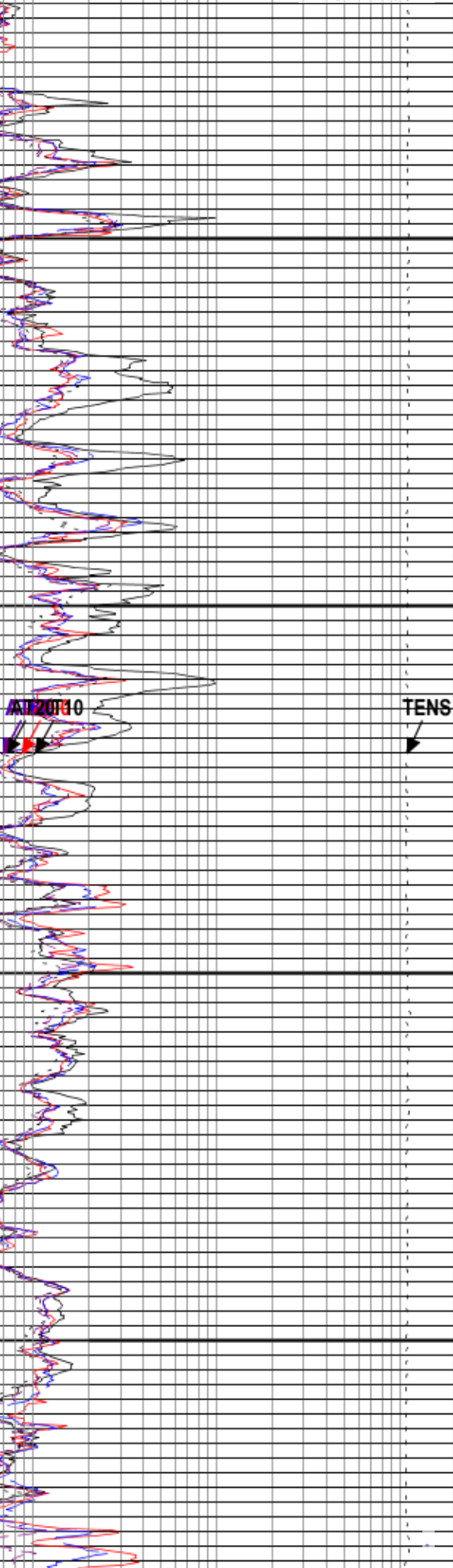




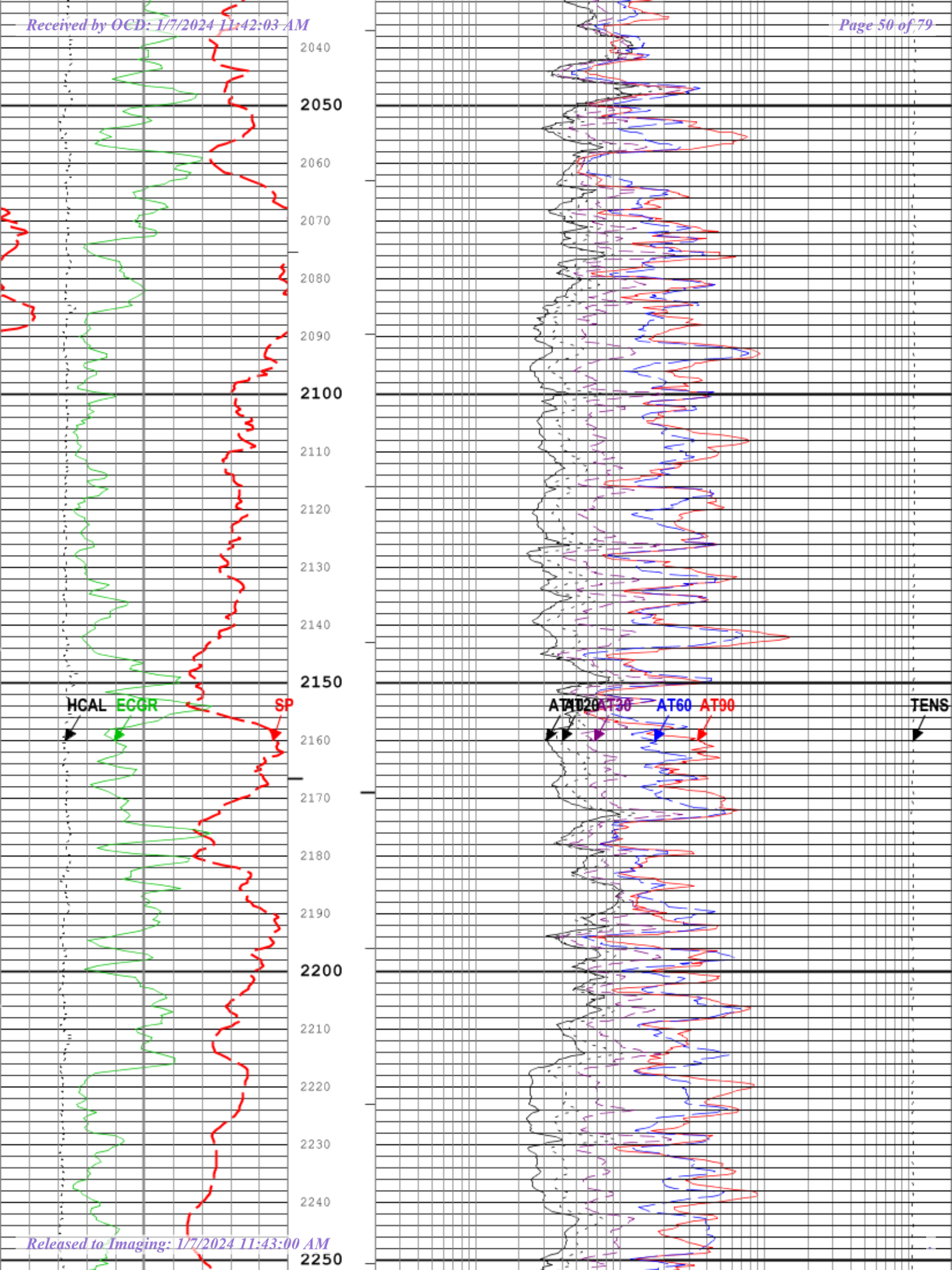


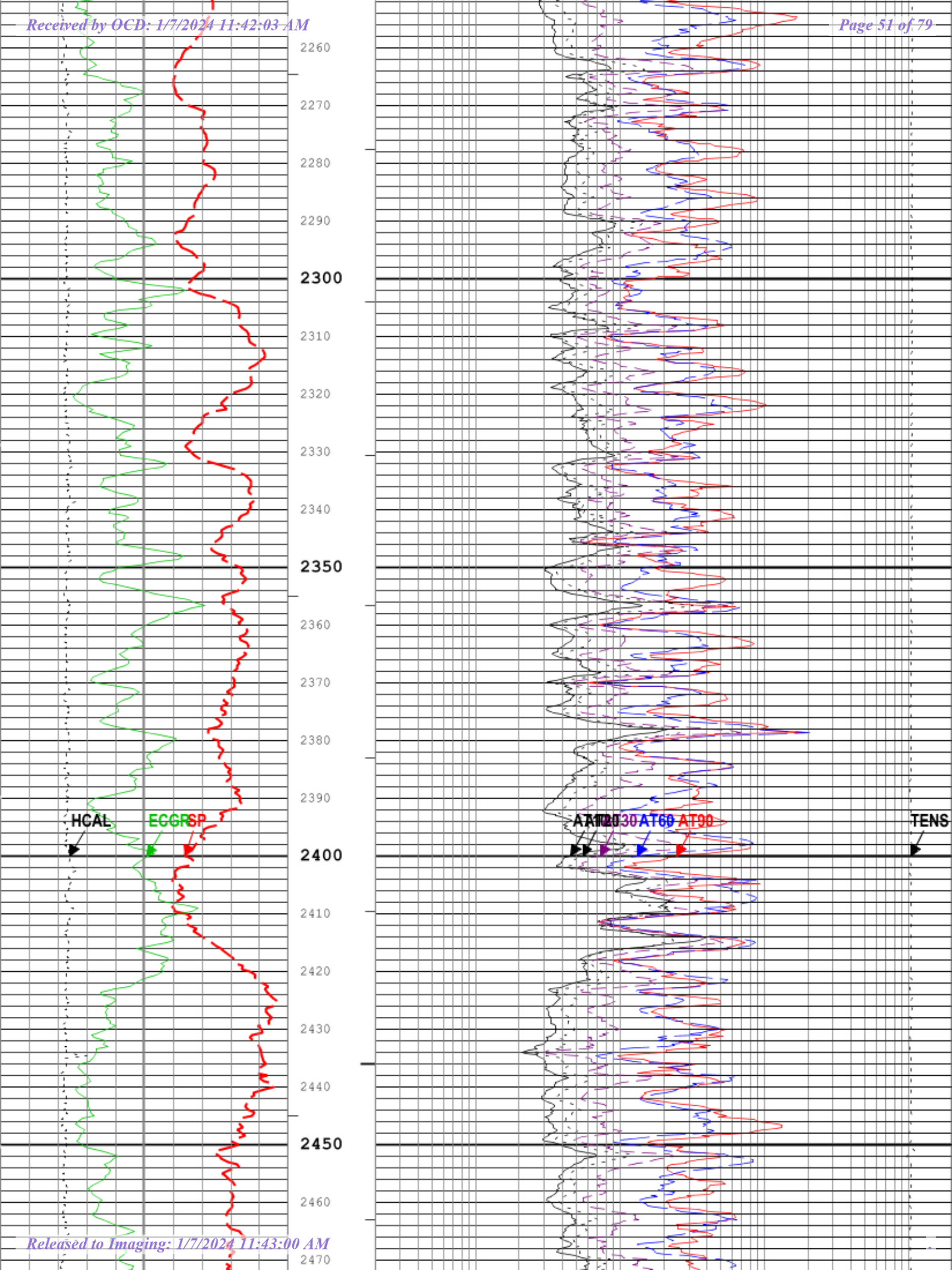


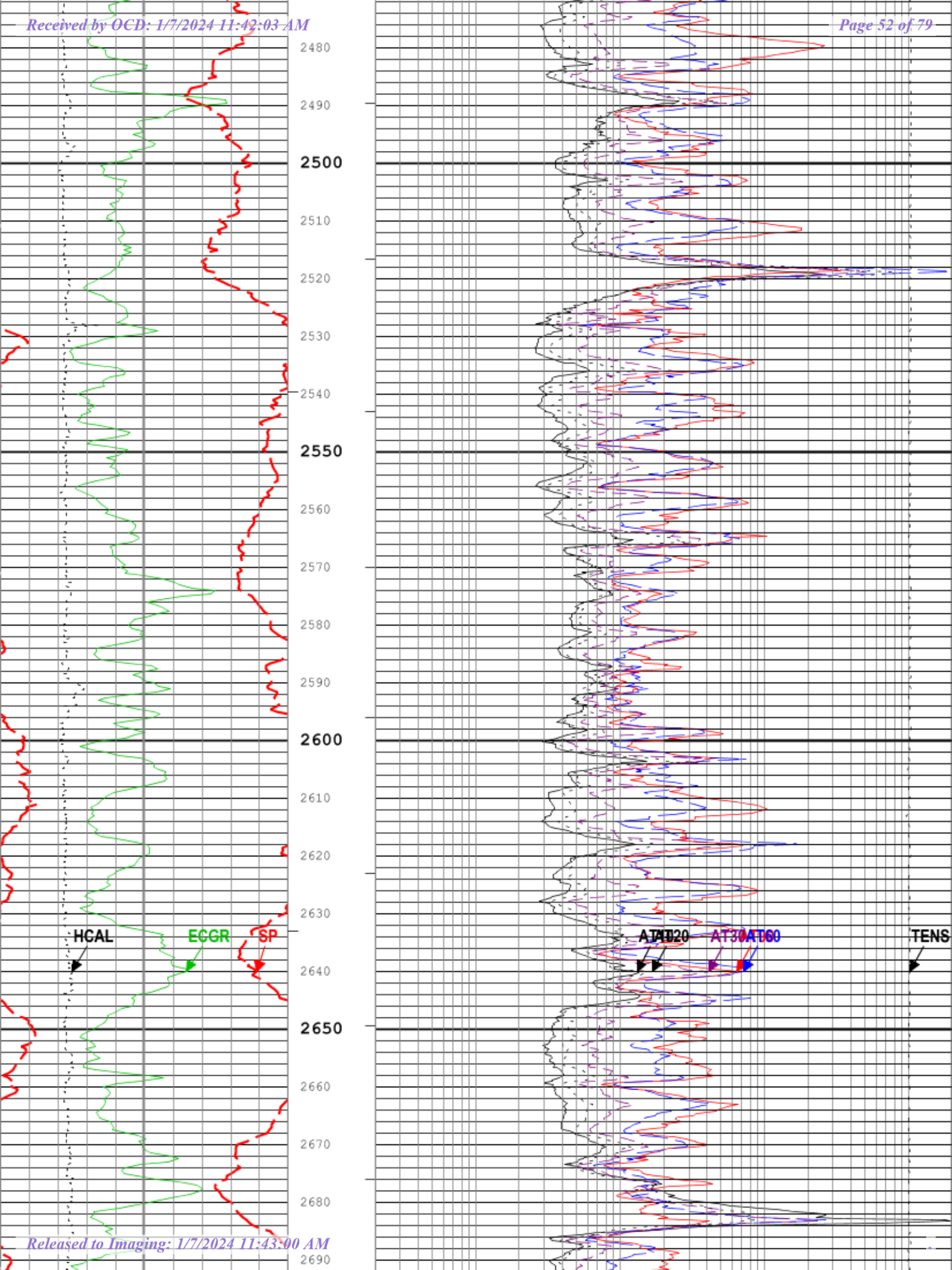
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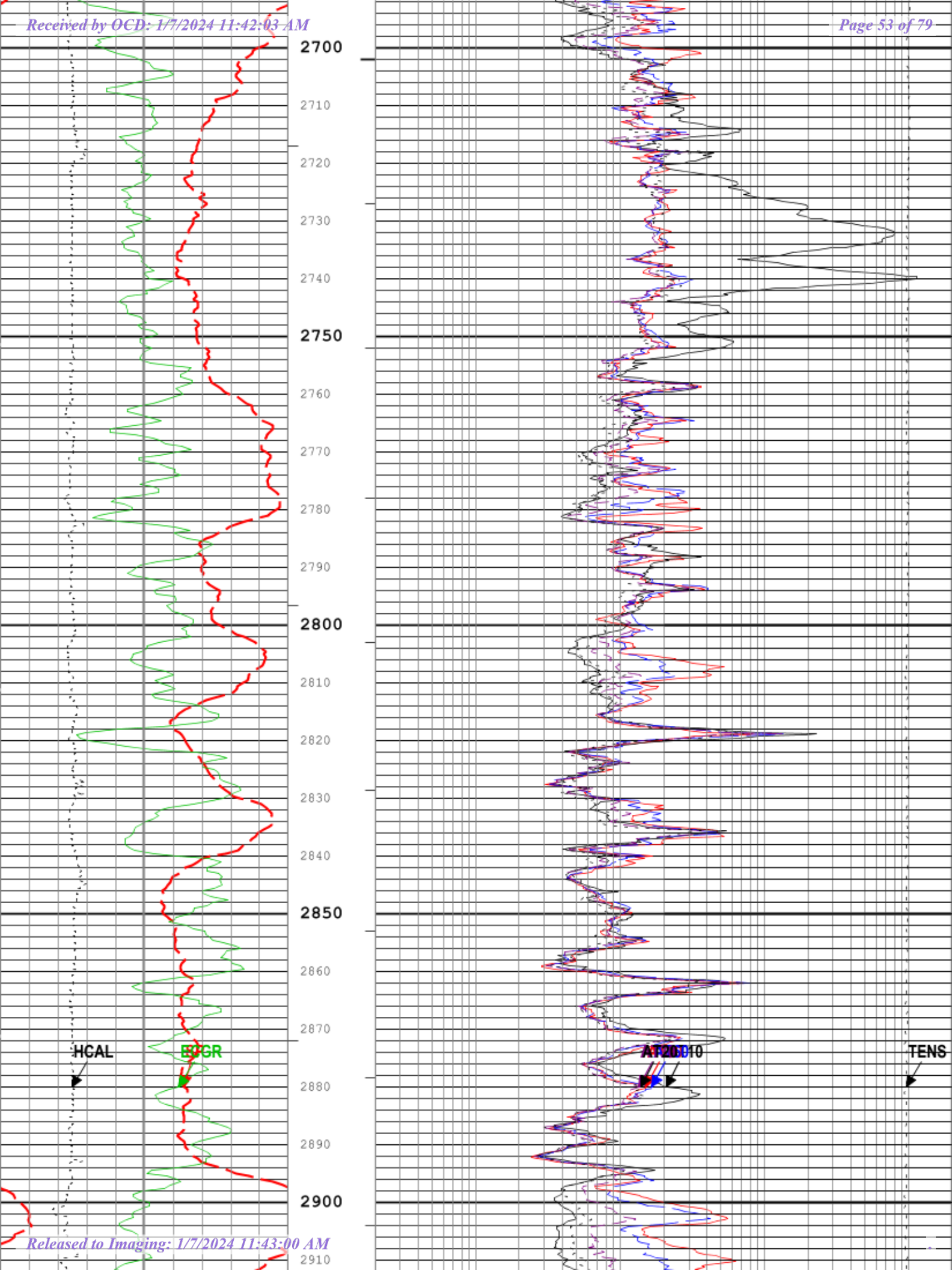


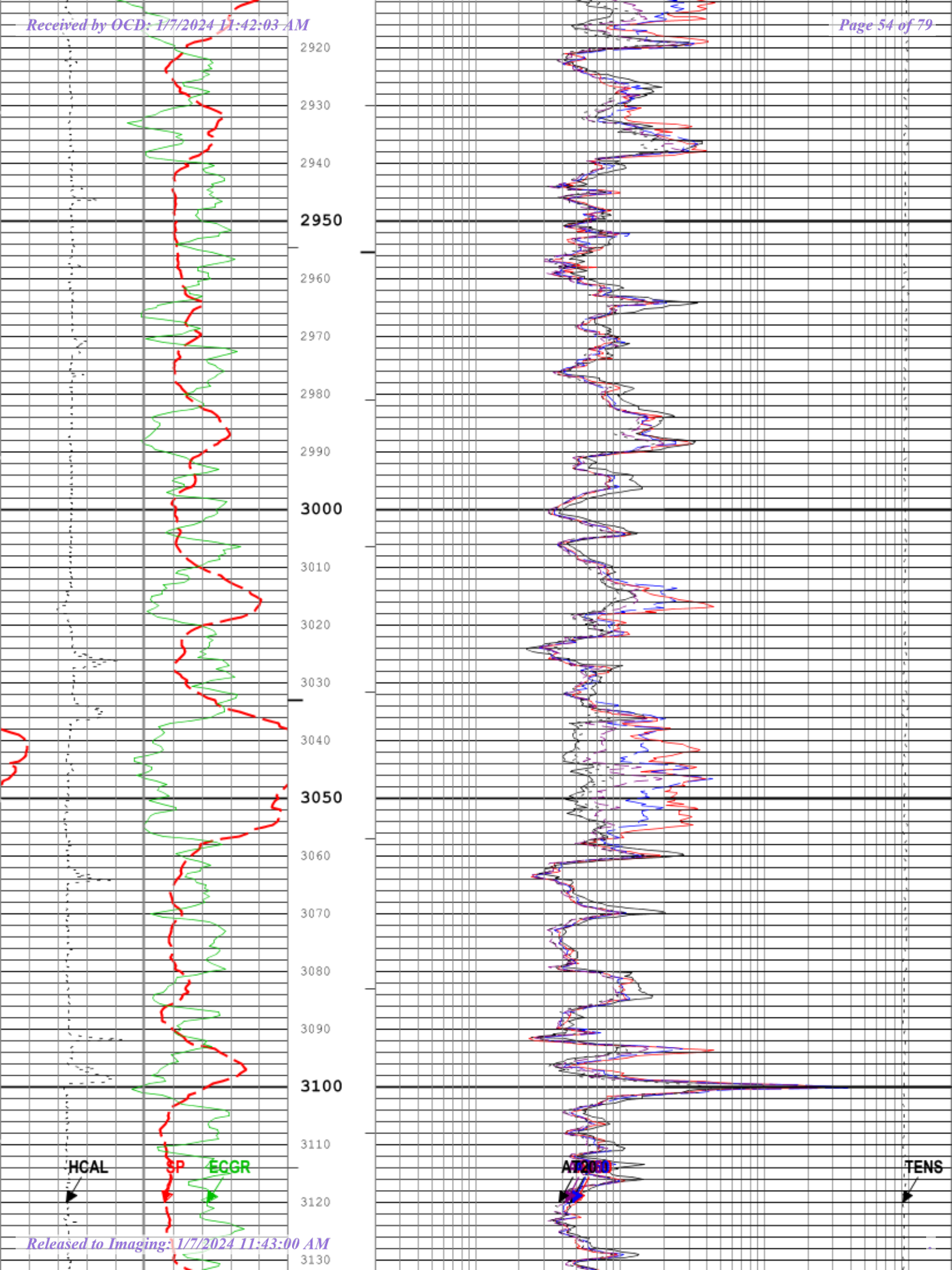
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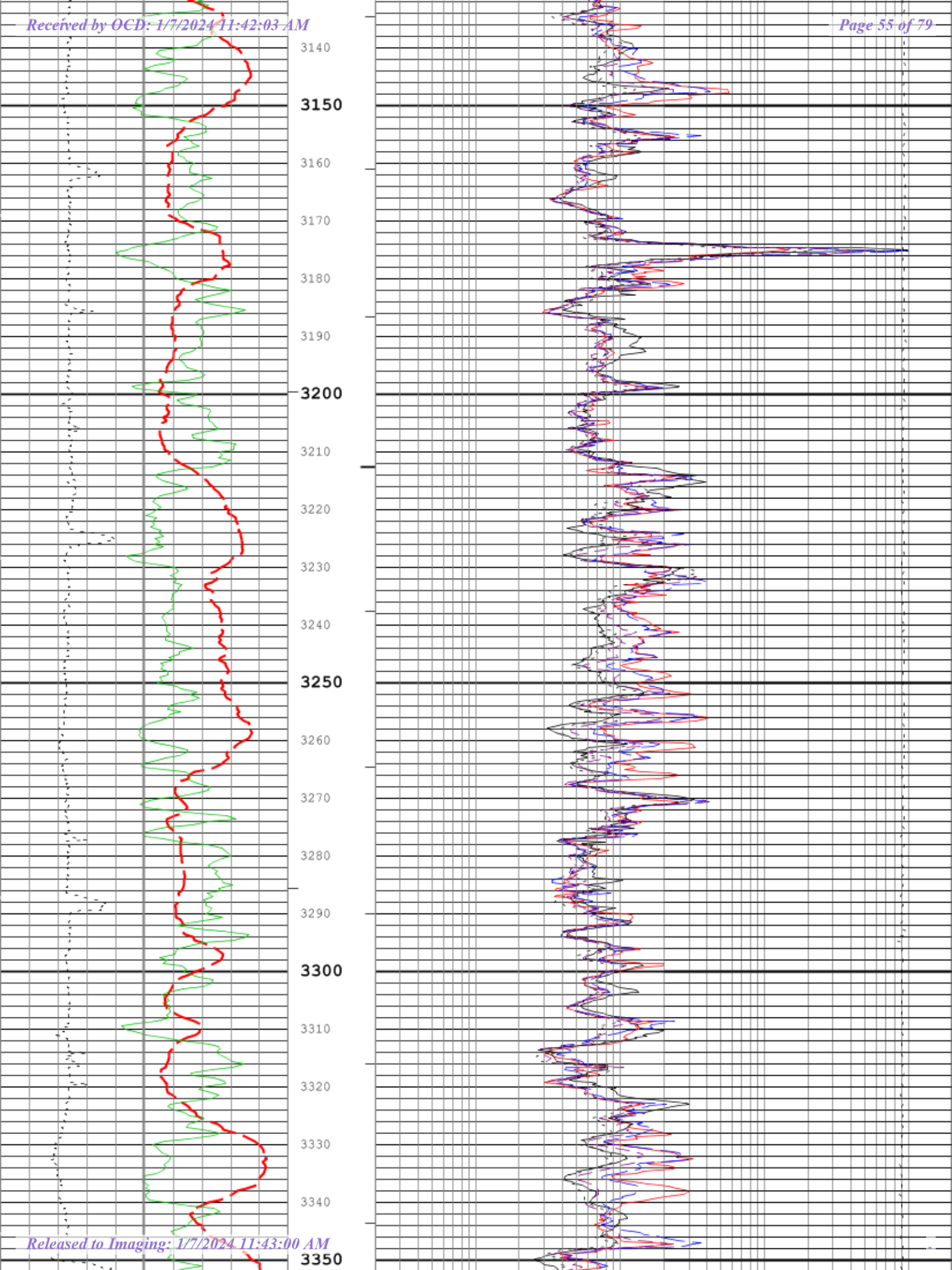


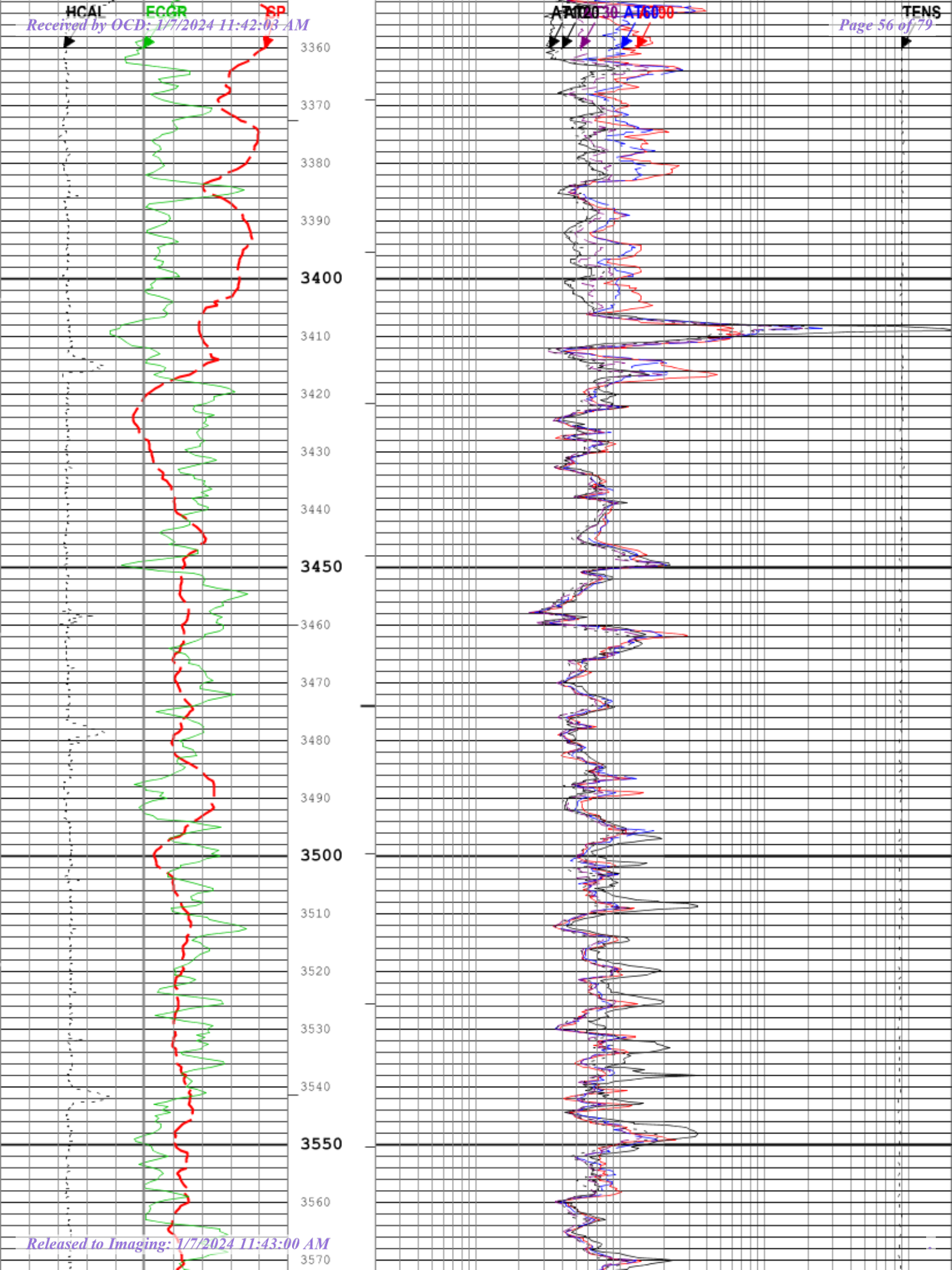


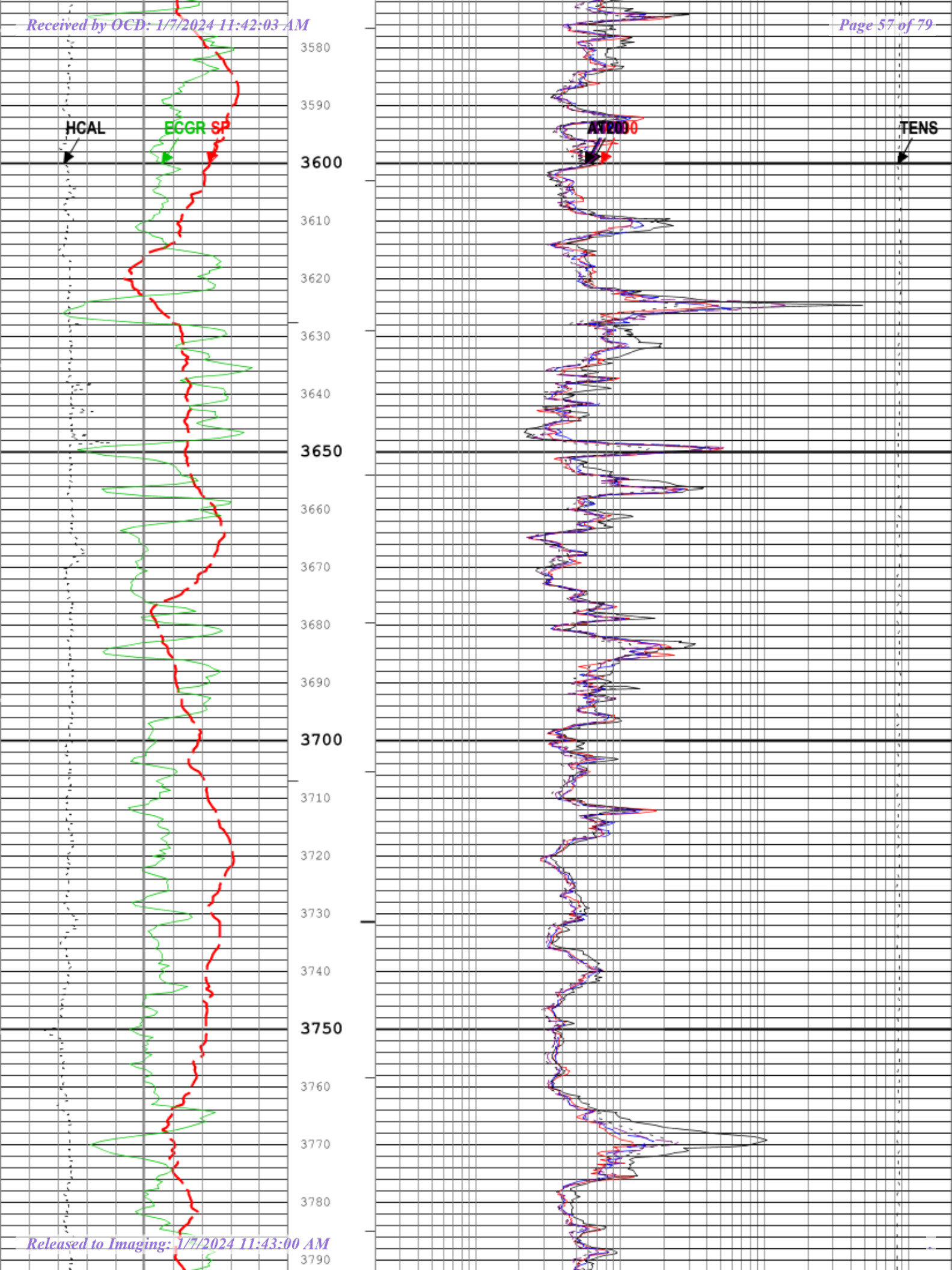


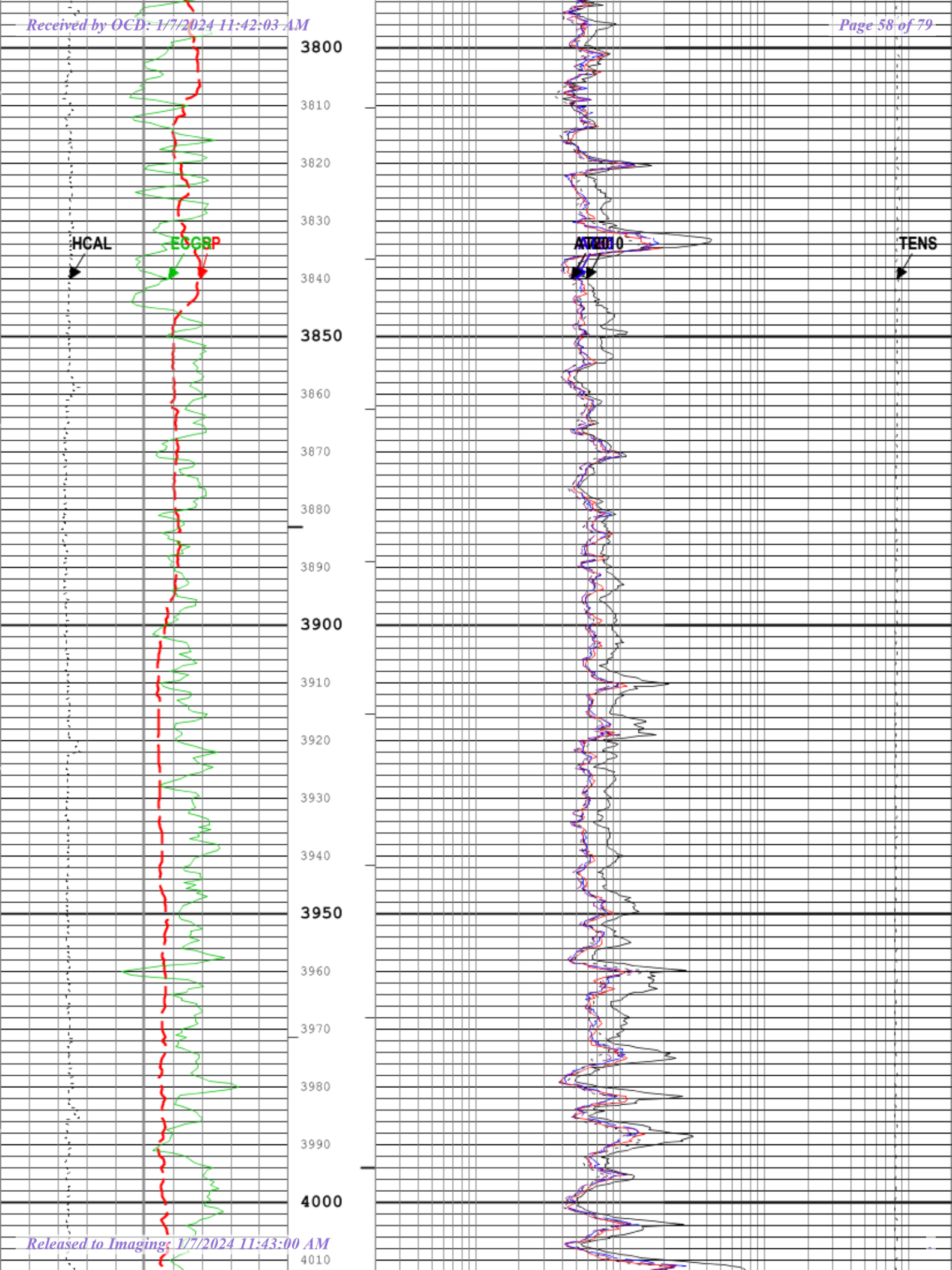












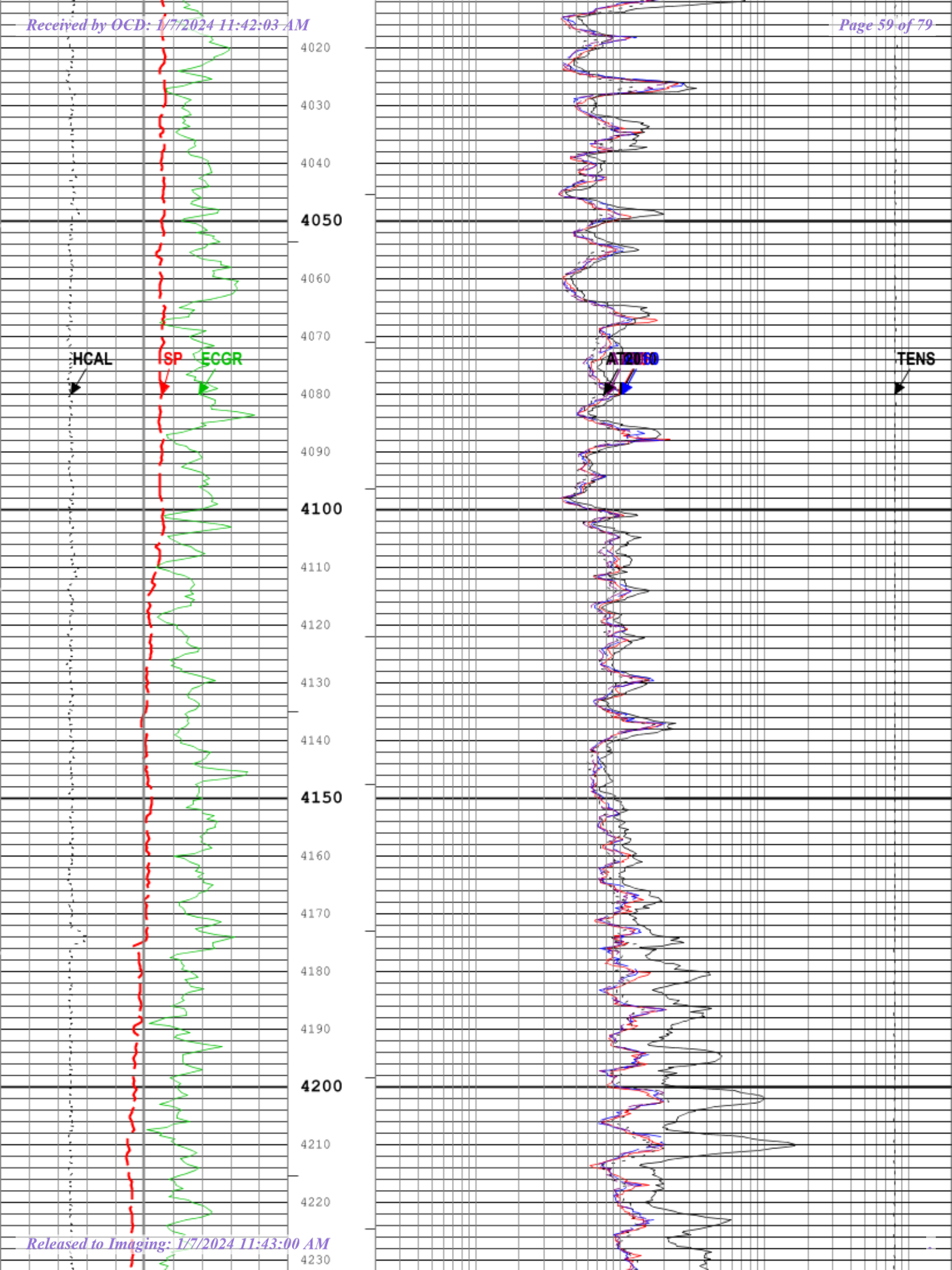
HCAL

SP

ECGR

AT2010

TENS



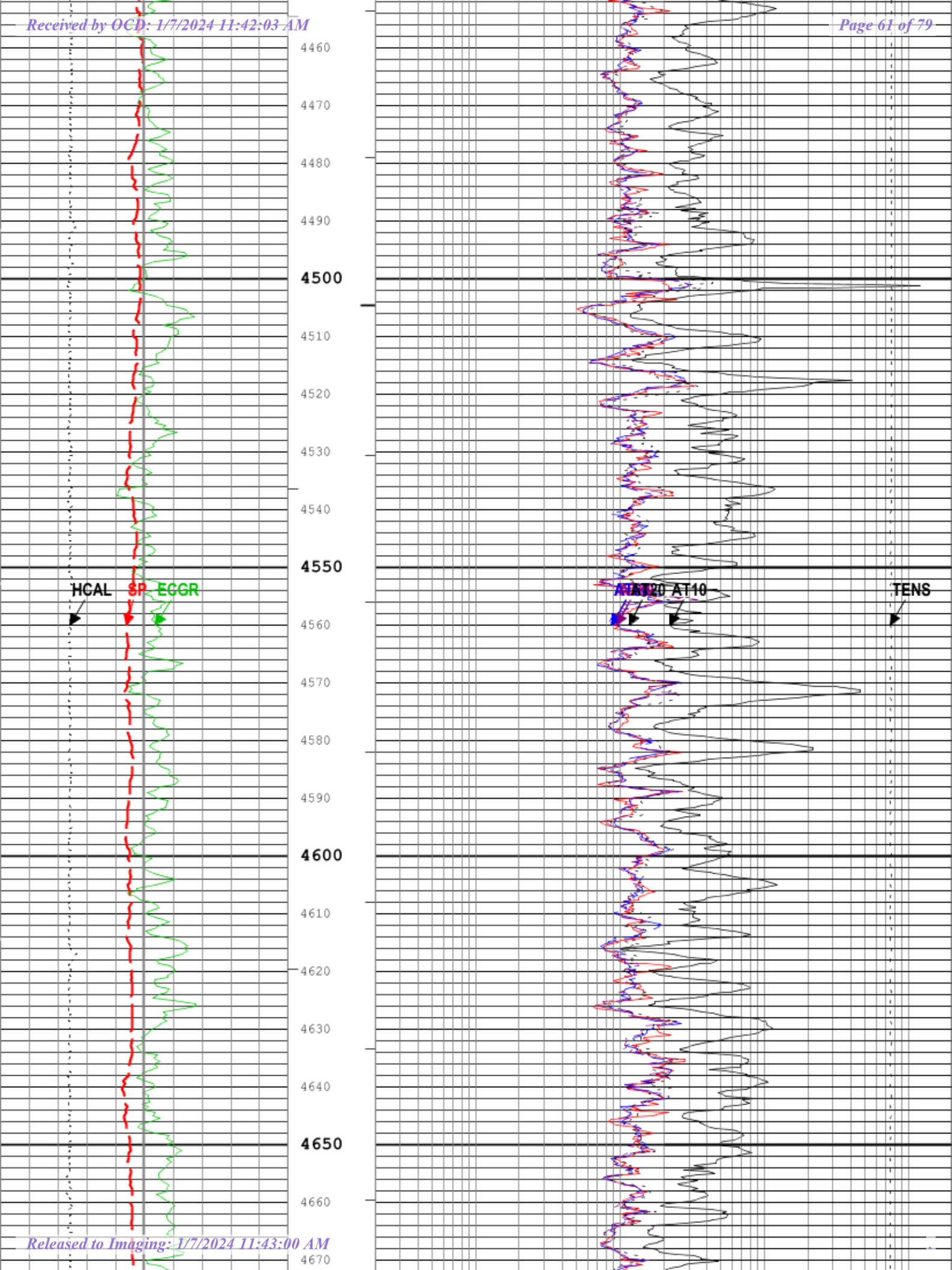
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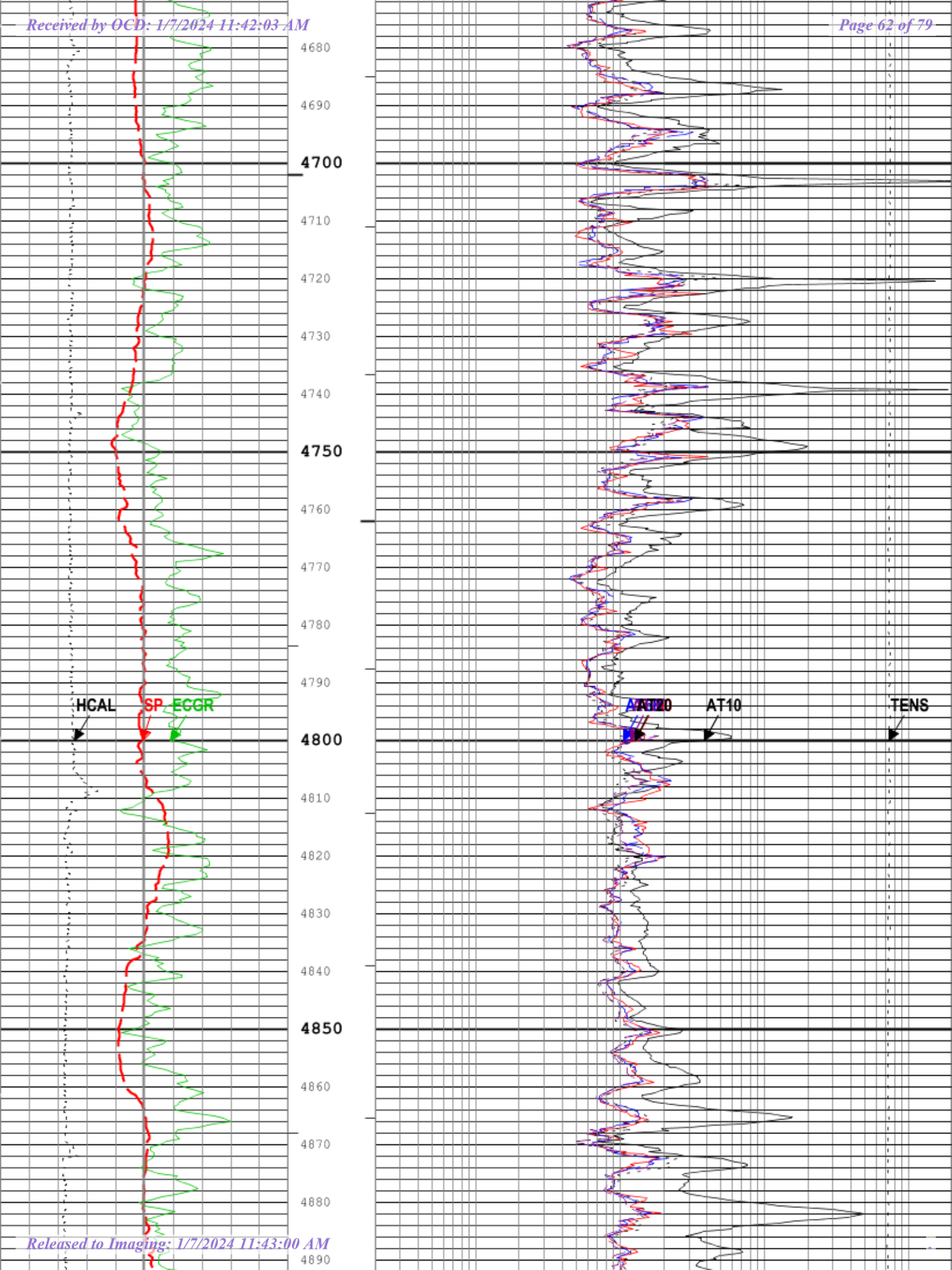
EBGR

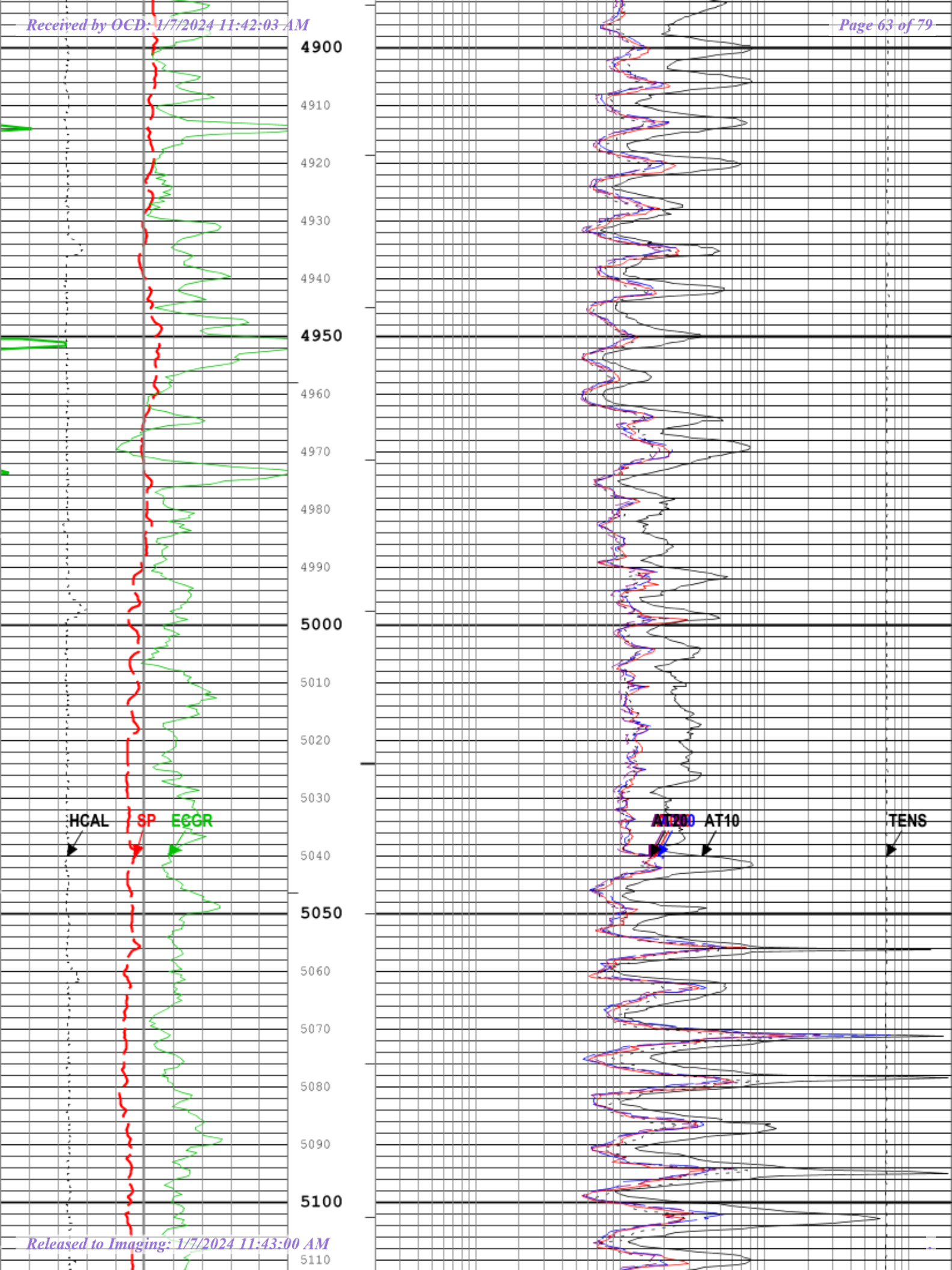
AT20 T60

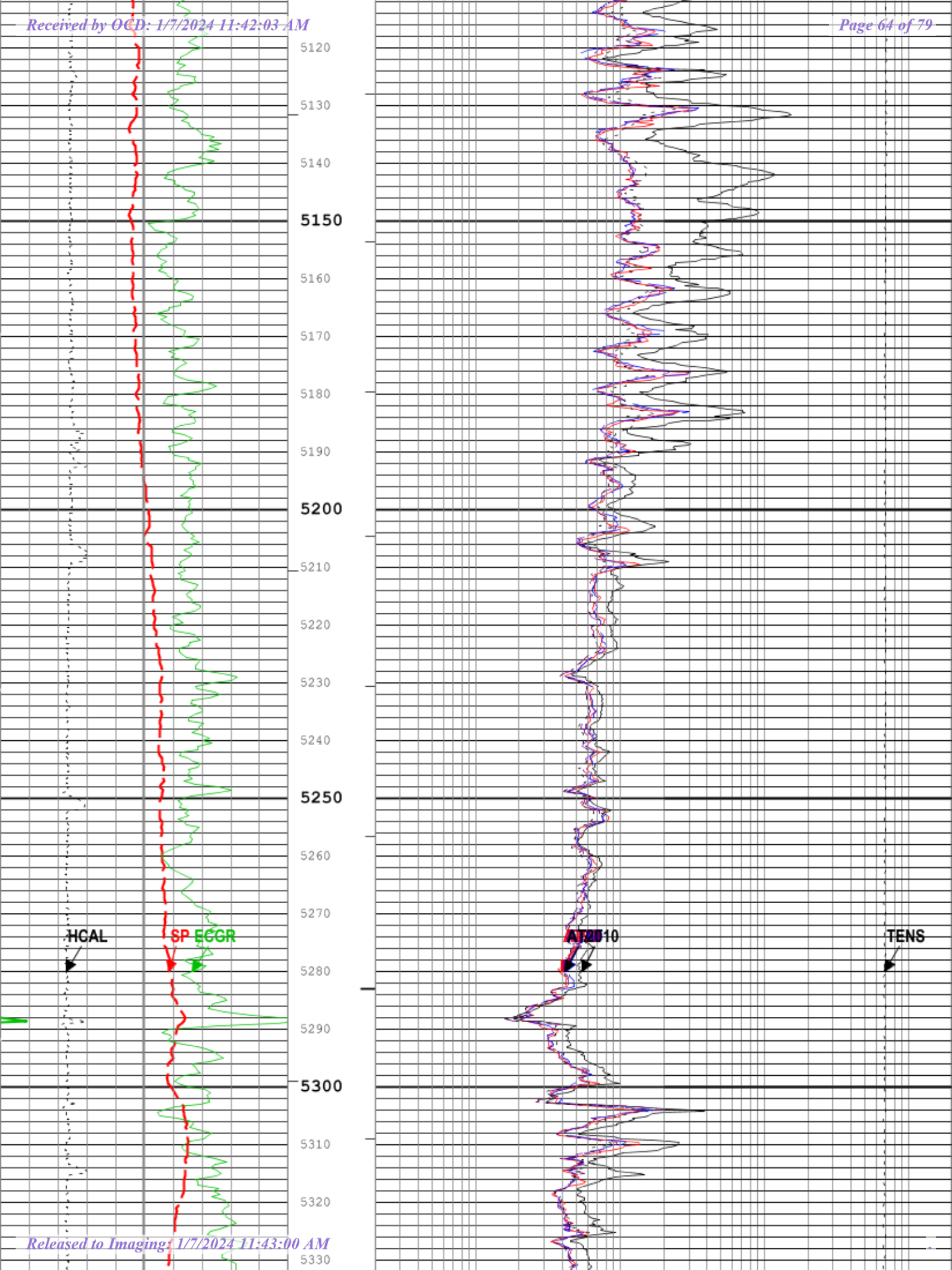
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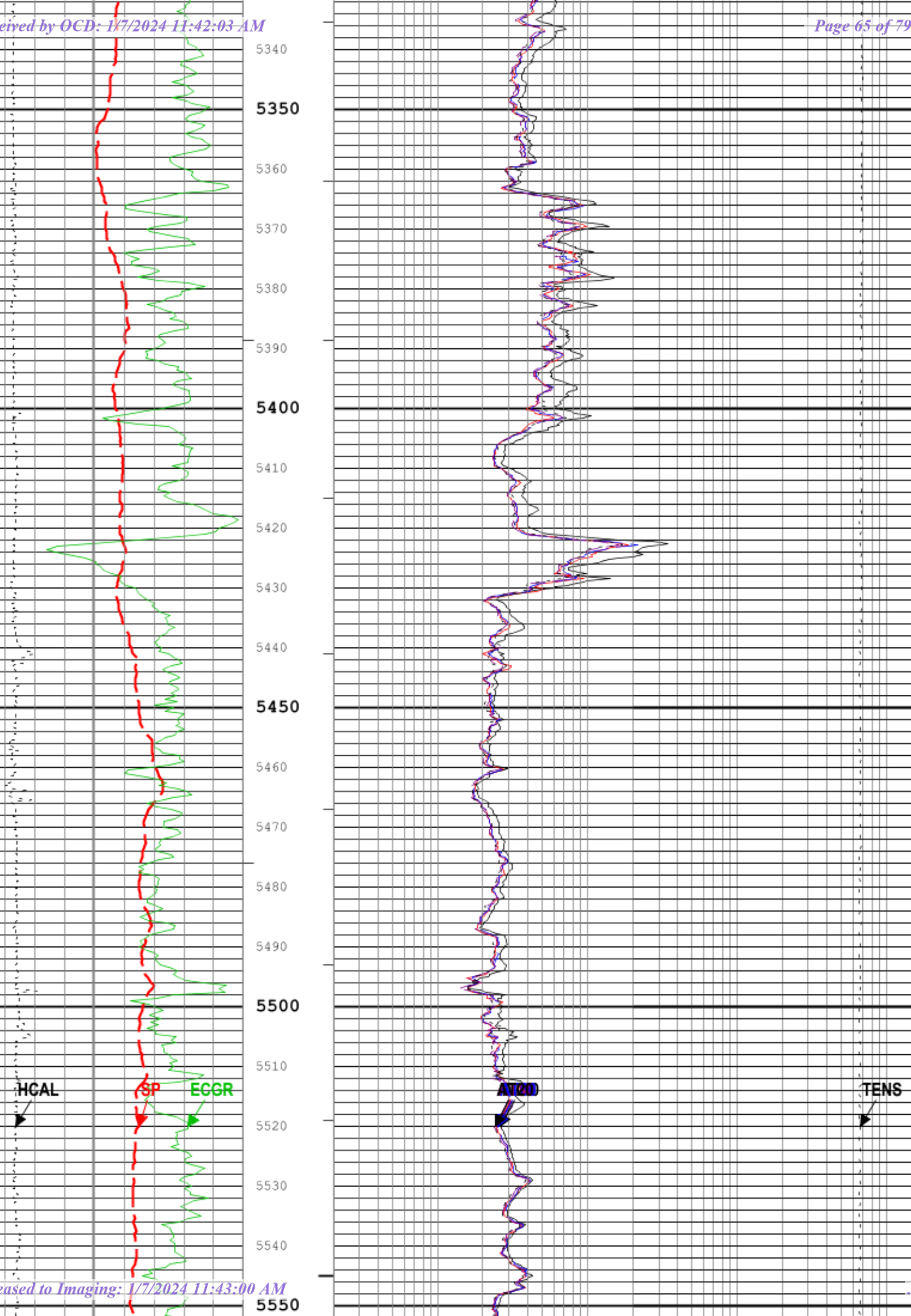
TENS

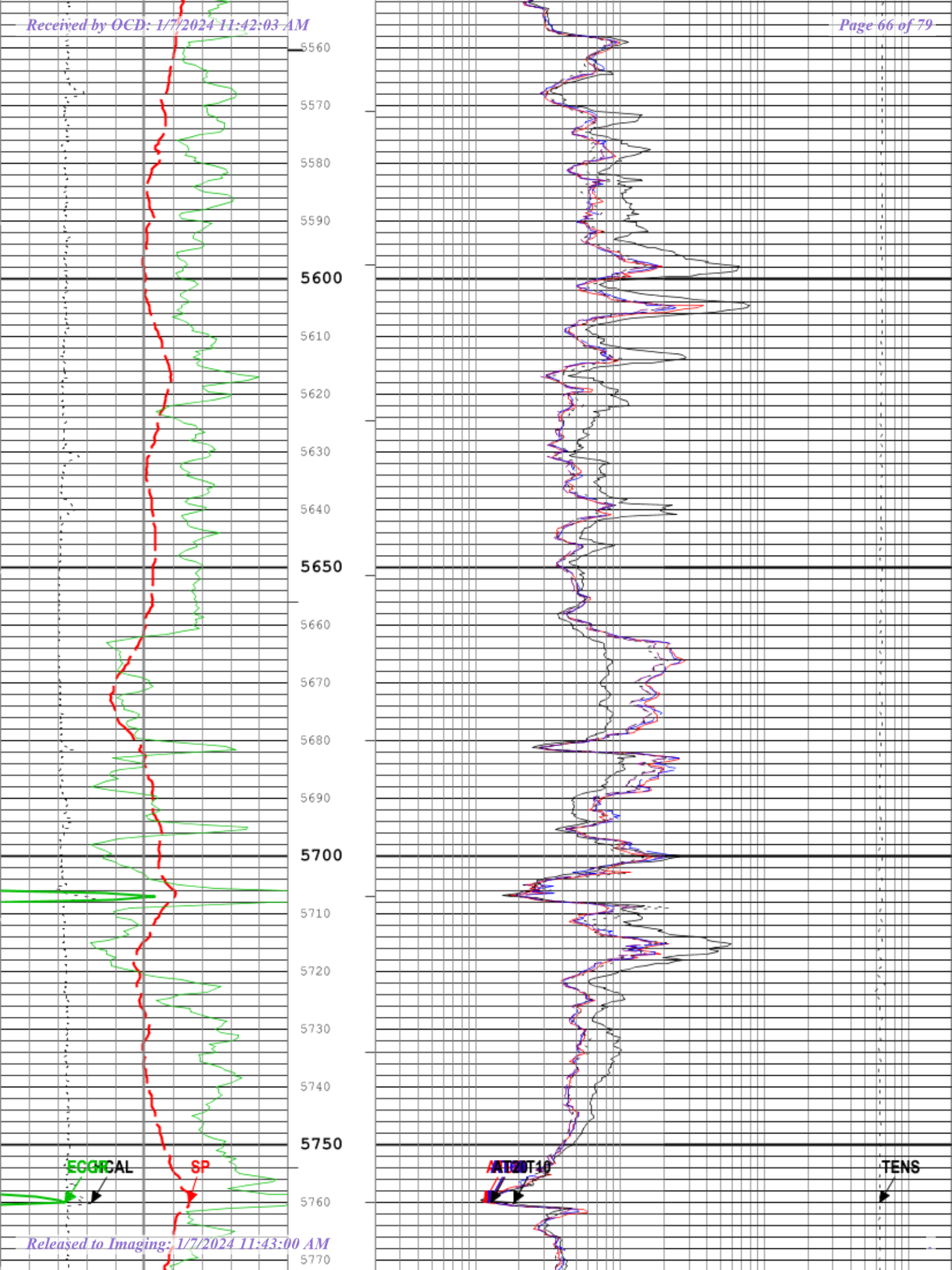


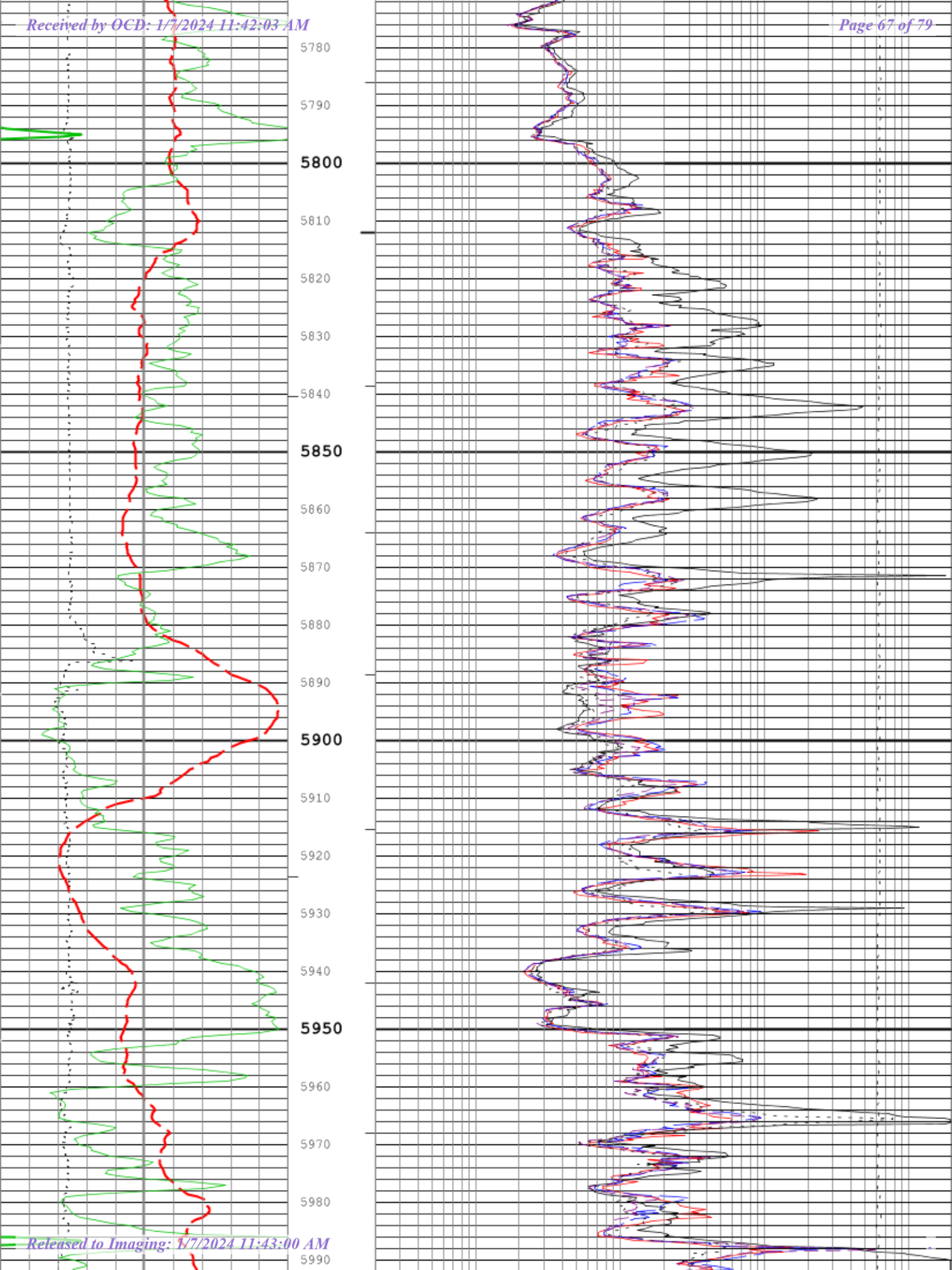


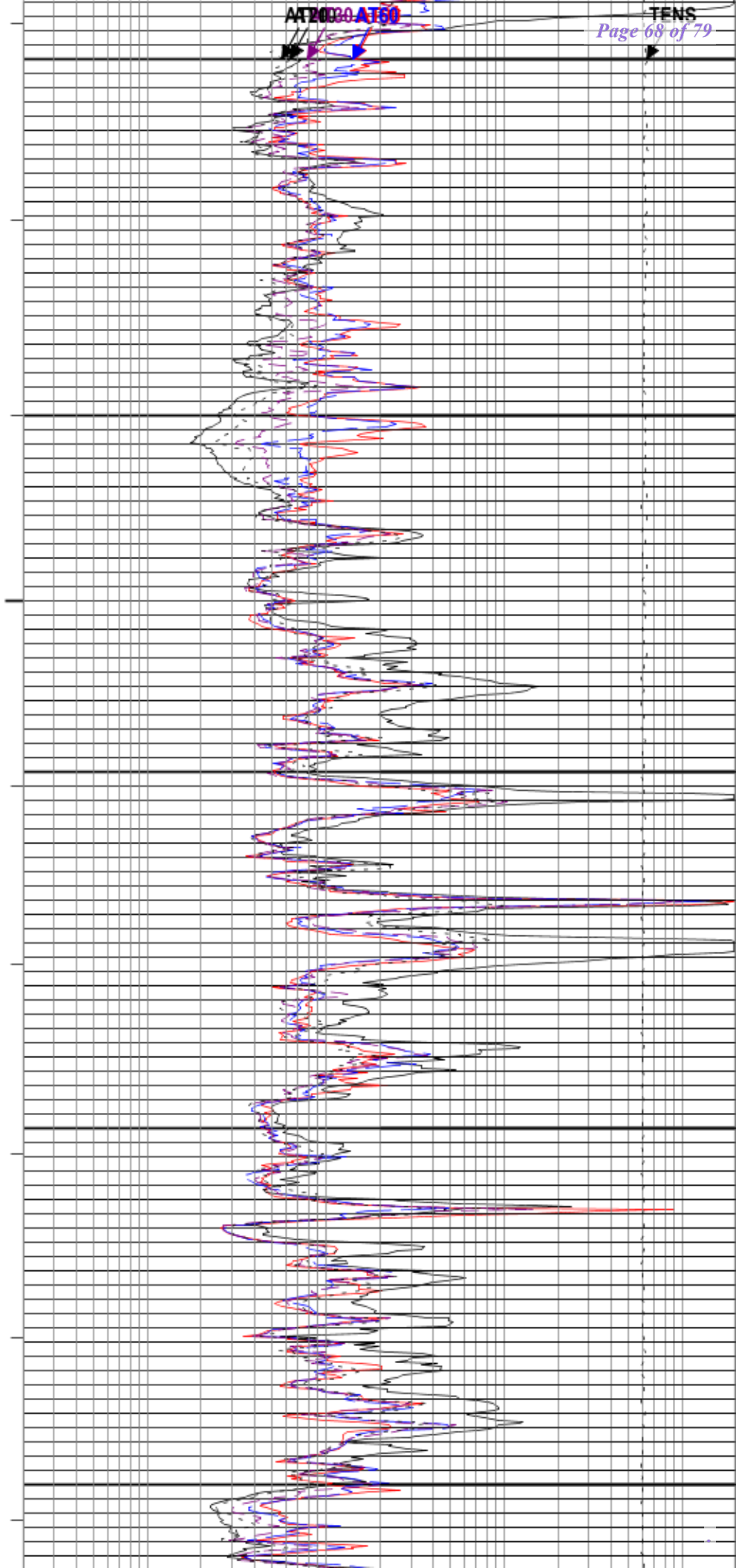
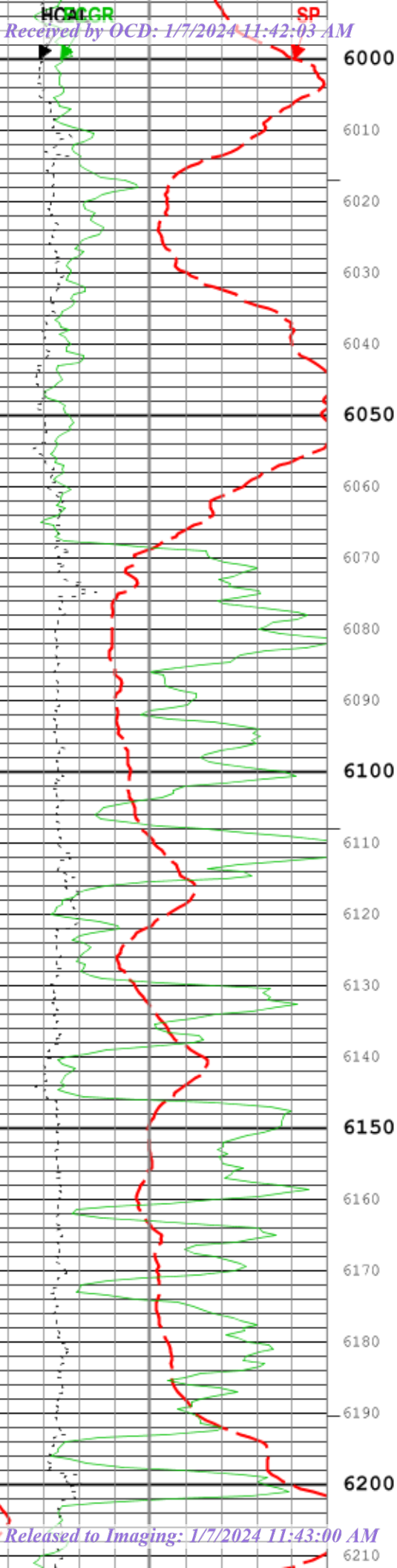


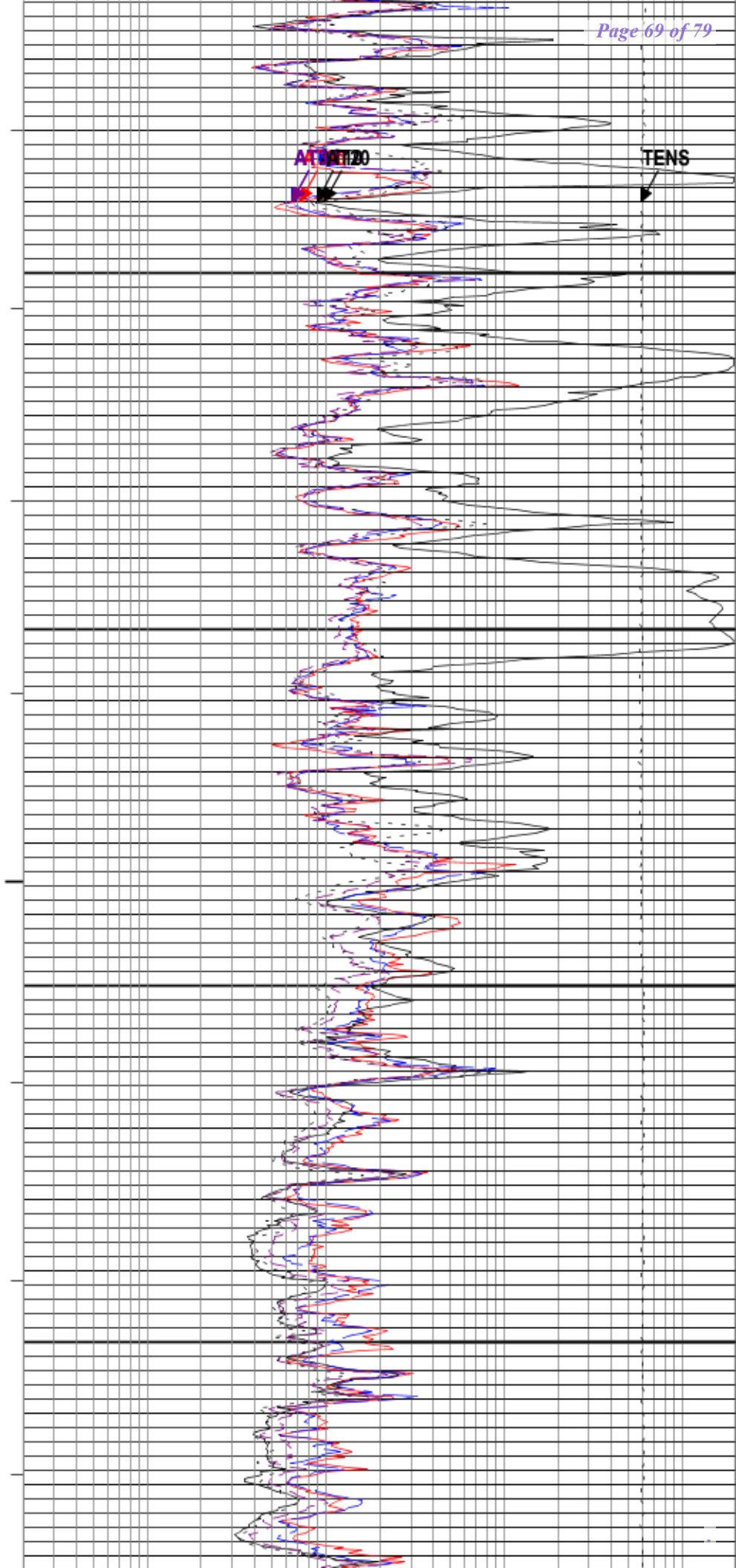
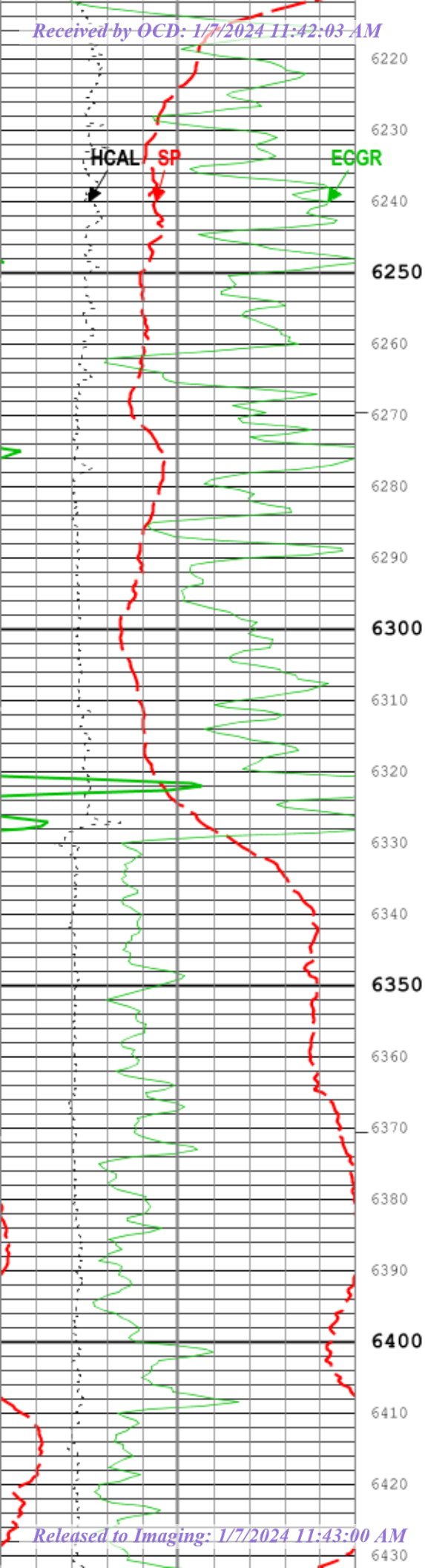


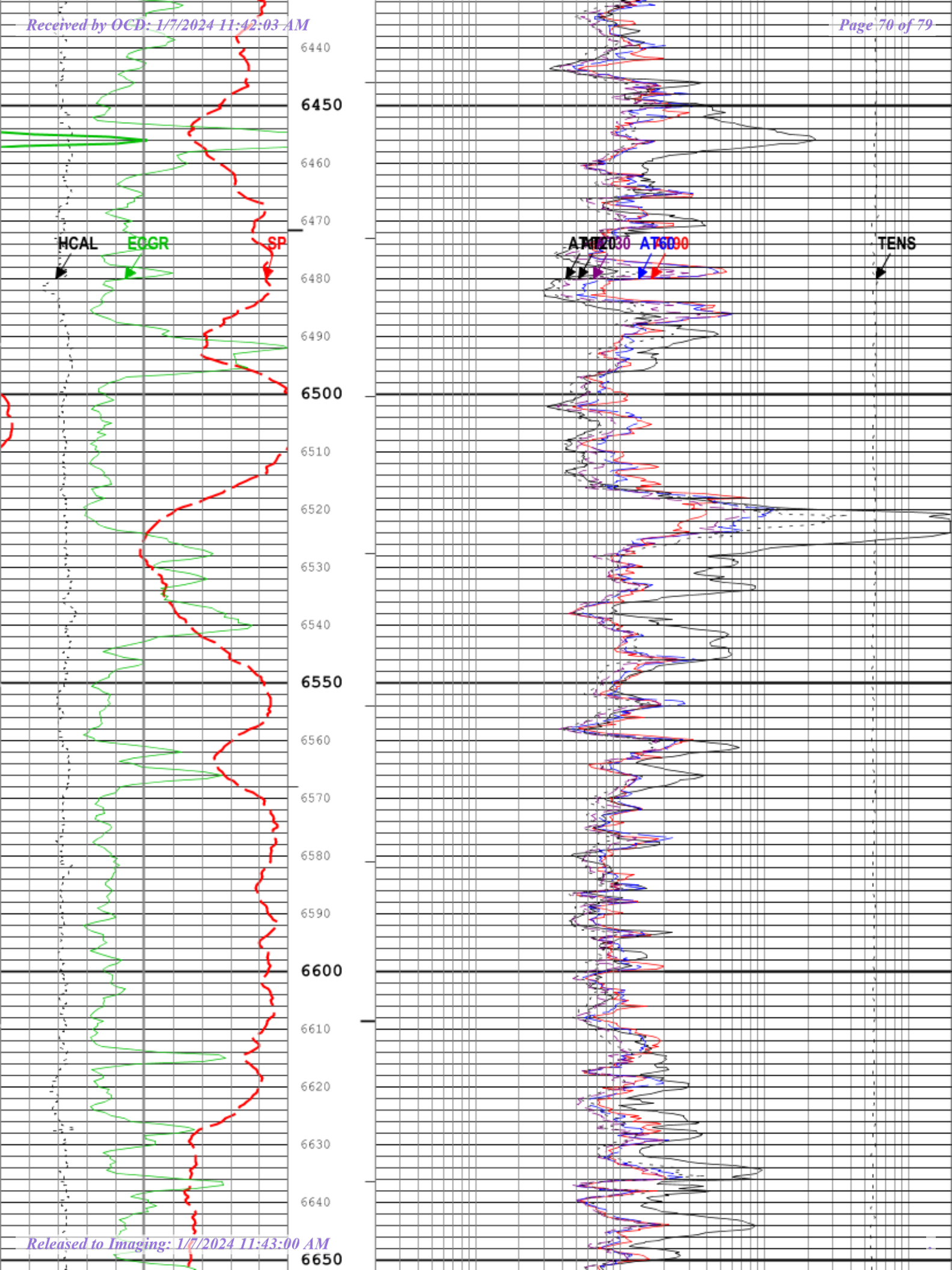


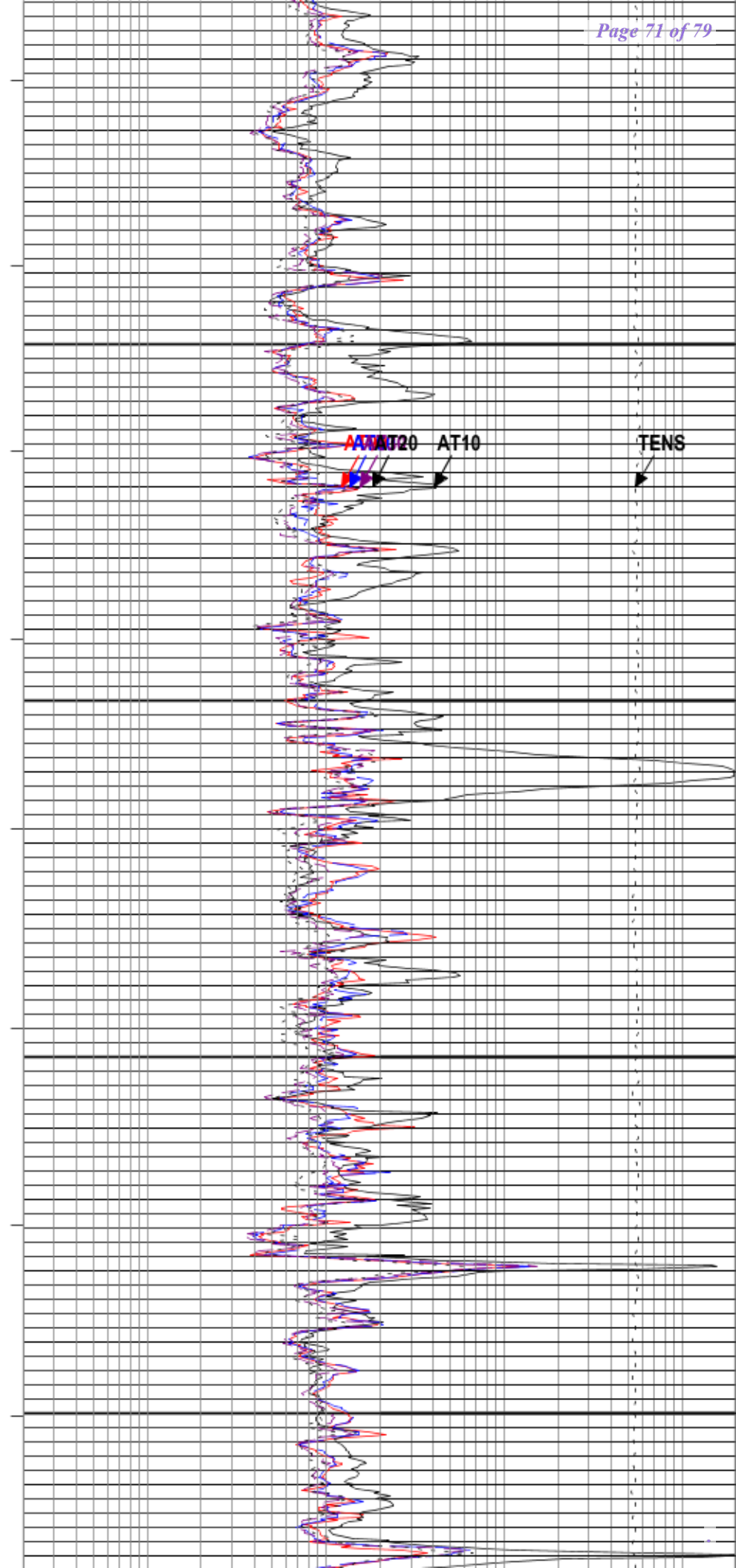
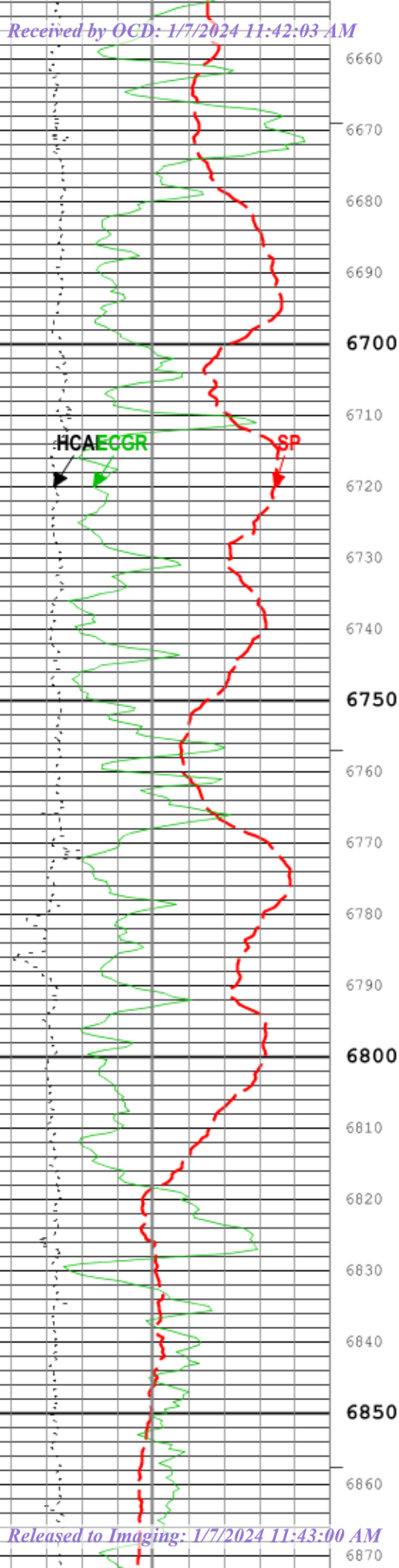


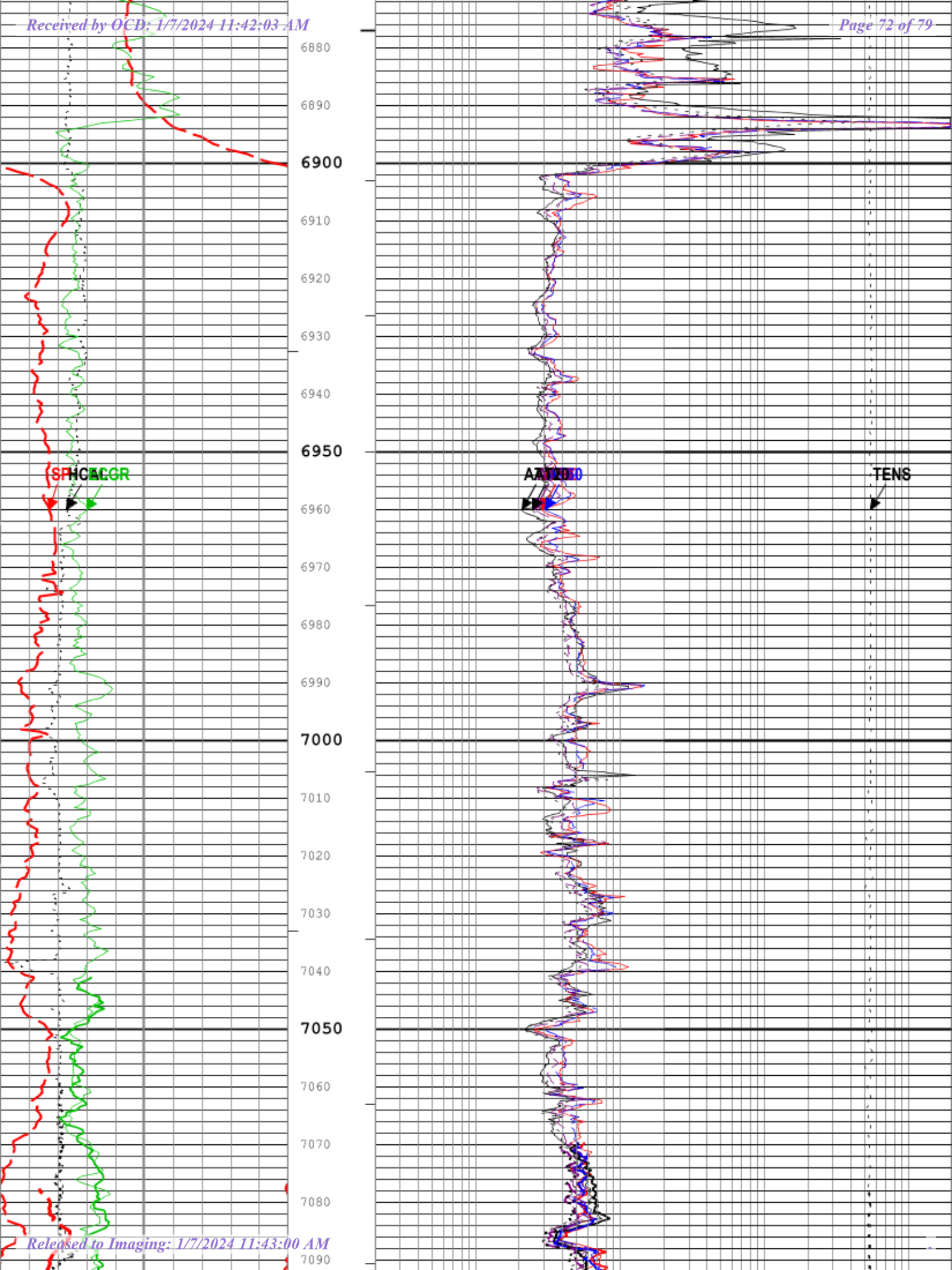


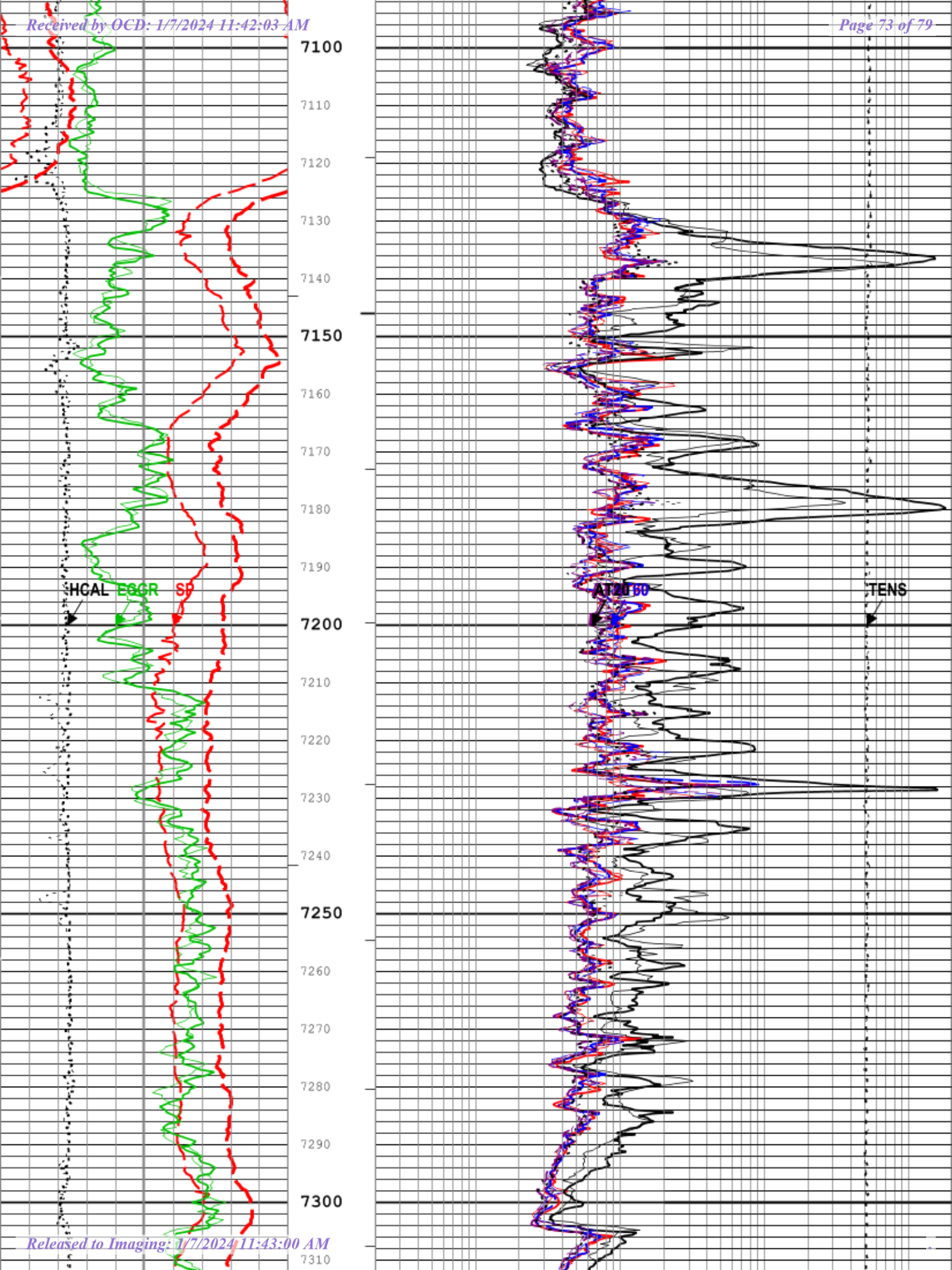


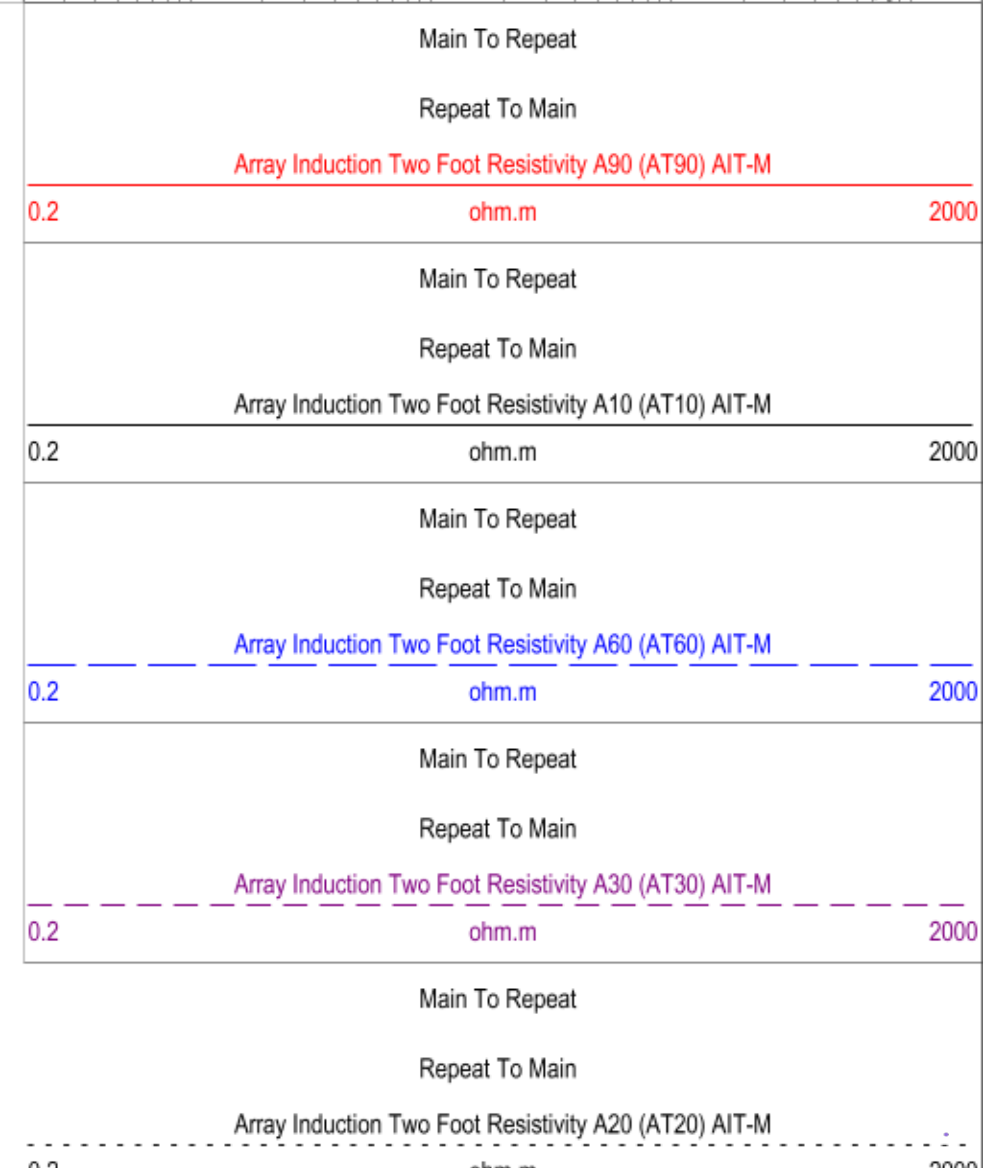
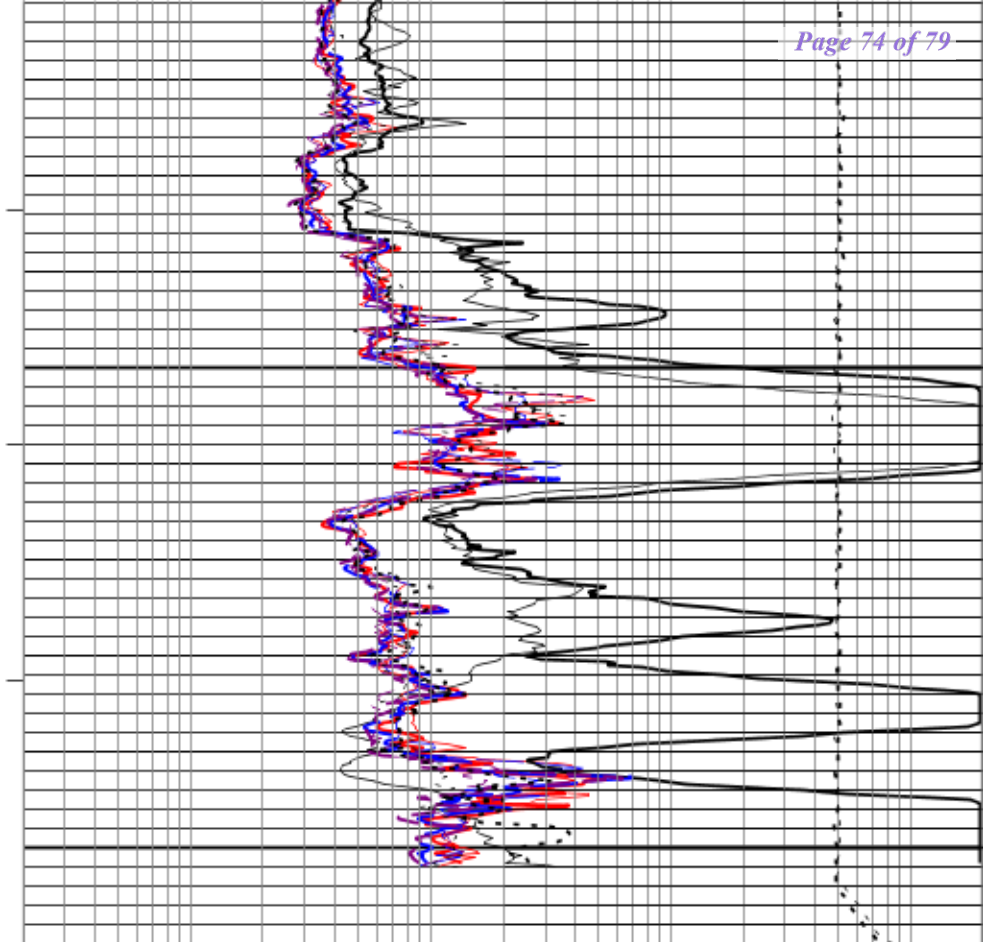
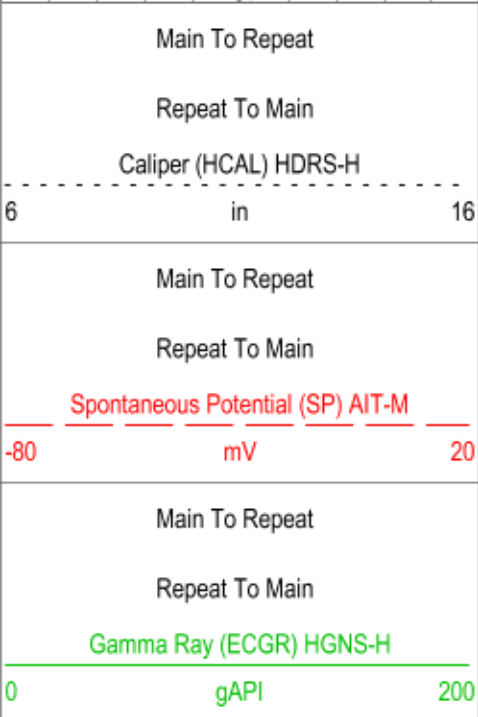
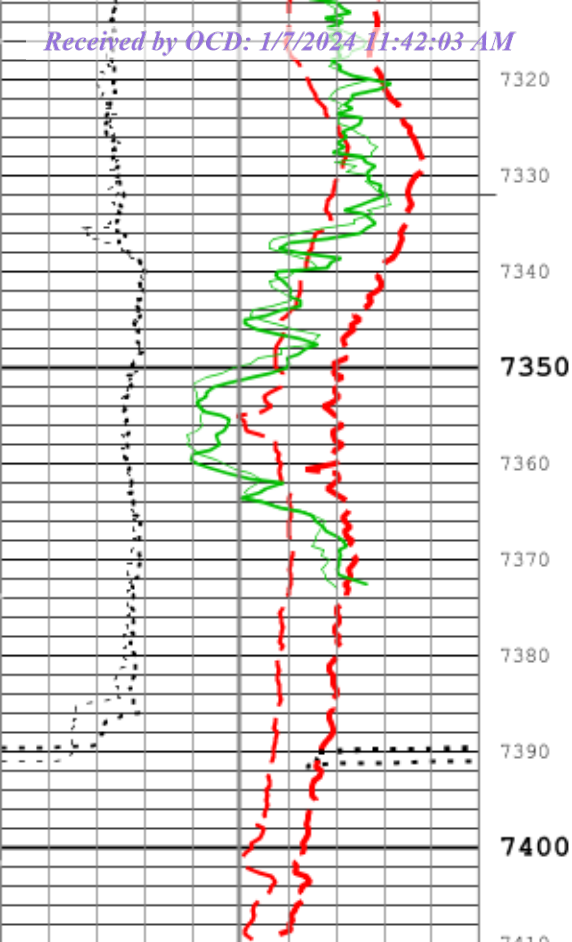












Main To Repeat

Repeat To Main

Cable Tension (TENS)

10000

lbf

0

TIME_1900 - Time Marked every 60.00 (s)

—ICV - Integrated Cement Volume every 100.00 (ft3)

—ICV - Integrated Cement Volume every 10.00 (ft3)

—IHV - Integrated Hole Volume every 100.00 (ft3)

—IHV - Integrated Hole Volume every 10.00 (ft3)

Description: AIT Basic Log Two Format: Log (Induction-5 RA) Index Scale: 5 in per 100 ft Index Unit: ft Index Type: Measured Depth Creation Date: 02-Oct-2018 17:51:10

Channel Processing Parameters

One: Parameters

Parameter	Description	Tool	Value	Unit
ABHM	Array Induction Borehole Correction Mode	AIT-M	Compute Standoff	
ASTA	Array Induction Tool Standoff	AIT-M	0.6	in
BARI(ISSBAR)	Barite Mud Presence Flag	Borehole	No	
BHS	Borehole Status (Open or Cased Hole)	Borehole	Open	
BS	Bit Size	WLSESSION	8.5	in
CALI_SHIFT	CALI Supplementary Offset	HDRS-H	-0.268	in
CBLO	Casing Bottom (Logger)	WLSESSION	379	ft
CDEN	Cement Density	HGNS-H	2	g/cm3
CSODDRL	Casing Outer Diameter - Zoned along driller depths	WLSESSION	13.375	in
DFD	Drilling Fluid Density	Borehole	8.6	lbm/gal
DFT_CATEGORY	Drilling Fluid Type	Borehole	Water	
FCD	Future Casing (Outer) Diameter	WLSESSION	7	in
GCSE_DOWN_PASS	Generalized Caliper Selection for WL Log Down Passes	Borehole	BS(RT)	
GCSE_UP_PASS	Generalized Caliper Selection for WL Log Up Passes	Borehole	CALI	
GRSE	Generalized Mud Resistivity Selection, from Measured or Computed Mud Resistivity	Borehole	AMF	
SOCO	Standoff Correction Option	HGNS-H	Yes	
SPDR	SP Drift Per Foot	AIT-M	0	mV/ft

Tool Control Parameters

One: Parameters

Parameter	Description	Tool	Value	Unit
MAX_LOG_SPEED	Toolstring Maximum Logging Speed	WLSESSION	3600	ft/h

Calibration Report

AIT-M (Array Induction Tool - M) Calibration - Run One

Primary Equipment :

File code for AIT-MA Sonde Tool Element

AMIS

129

Auxiliary Equipment :

AITM Rm/SP Bottom Nose

AMRM

129

AIT Sonde Calibration - Test Loop Gain

Master (EEPROM): 23:48:37 08-Apr-2017

Measurement	Unit	Phase	Nominal	Low Limit	Actual	High Limit	
Test Loop Gain - 0		Master	1.000	0.950	1.010	1.050	

Test Loop Phase - 0	deg	Master	0	-3.000	0.610	3.000	
Received by OCD: 1/7/2024 11:42:03 AM							
Test Loop Phase - 1	deg	Master	0	-3.000	0.696	3.000	
Test Loop Gain - 2		Master	1.000	0.950	1.008	1.050	
Test Loop Phase - 2	deg	Master	0	-3.000	0.140	3.000	
Test Loop Gain - 3		Master	1.000	0.950	1.004	1.050	
Test Loop Phase - 3	deg	Master	0	-3.000	0.205	3.000	
Test Loop Gain - 4		Master	1.000	0.950	0.988	1.050	
Test Loop Phase - 4	deg	Master	0	-3.000	0.153	3.000	
Test Loop Gain - 5		Master	1.000	0.950	0.981	1.050	
Test Loop Phase - 5	deg	Master	0	-3.000	-0.005	3.000	
Test Loop Gain - 6		Master	1.000	0.950	0.987	1.050	
Test Loop Phase - 6	deg	Master	0	-3.000	0.336	3.000	
Test Loop Gain - 7		Master	1.000	0.950	1.007	1.050	
Test Loop Phase - 7	deg	Master	0	-3.000	0.048	3.000	

AIT Sonde Calibration - Sonde Error Correction

Master (EEPROM): 23:48:37 08-Apr-2017							
Measurement	Unit	Phase	Nominal	Low Limit	Actual	High Limit	
Sonde Error Correction Real - 0	mS/m	Master	-----	-231.000	-81.582	119.000	
Sonde Error Correction Quad - 0		Master	-----	-2250.000	-104.509	2250.000	
Sonde Error Correction Real - 1	mS/m	Master	-----	114.000	161.716	204.000	
Sonde Error Correction Quad - 1		Master	-----	-625.000	154.766	625.000	
Sonde Error Correction Real - 2	mS/m	Master	-----	66.000	107.095	156.000	
Sonde Error Correction Quad - 2		Master	-----	-350.000	-64.698	350.000	
Sonde Error Correction Real - 3	mS/m	Master	-----	39.000	58.376	89.000	
Sonde Error Correction Quad - 3		Master	-----	-250.000	28.165	250.000	
Sonde Error Correction Real - 4	mS/m	Master	-----	15.000	25.047	35.000	
Sonde Error Correction Quad - 4		Master	-----	-63.000	11.675	63.000	
Sonde Error Correction Real - 5	mS/m	Master	-----	4.000	11.837	24.000	
Sonde Error Correction Quad - 5		Master	-----	-50.000	12.163	50.000	
Sonde Error Correction Real - 6	mS/m	Master	-----	5.000	9.663	15.000	
Sonde Error Correction Quad - 6		Master	-----	-30.000	-2.239	30.000	
Sonde Error Correction Real - 7	mS/m	Master	-----	-5.000	-1.442	5.000	
Sonde Error Correction Quad - 7		Master	-----	-30.000	-10.316	30.000	

AIT Mud Calibration - Mud Calibration Gain

Master (EEPROM): 23:48:37 08-Apr-2017							
Measurement	Unit	Phase	Nominal	Low Limit	Actual	High Limit	
Coarse Gain		Master	1.000	0.800	0.976	1.200	
Fine Gain		Master	1.000	0.800	0.971	1.200	

AIT Electronics Check - Thru Calibration Check

Master (EEPROM): 23:48:37 08-Apr-2017							
Measurement	Unit	Phase	Nominal	Low Limit	Actual	High Limit	
Thru Cal Mag - 0	V	Master	-----	0.366	0.621	0.854	
Thru Cal Phase - 0	deg	Master	-----	137.000	-173.590	-103.000	
Thru Cal Mag - 1	V	Master	-----	0.762	1.276	1.778	
Thru Cal Phase - 1	deg	Master	-----	136.000	-174.683	-104.000	
Thru Cal Mag - 2	V	Master	-----	0.372	0.632	0.868	
Thru Cal Phase - 2	deg	Master	-----	132.000	-178.262	-108.000	
Thru Cal Mag - 3	V	Master	-----	0.420	0.715	0.980	
Thru Cal Phase - 3	deg	Master	-----	131.000	-179.038	-109.000	
Thru Cal Mag - 4	V	Master	-----	0.804	1.338	1.876	
Thru Cal Phase - 4	deg	Master	-----	125.000	174.750	-115.000	
Thru Cal Mag - 5	V	Master	-----	1.176	1.944	2.744	
Thru Cal Phase - 5	deg	Master	-----	122.000	173.115	-118.000	
Thru Cal Mag - 6	V	Master	-----	1.176	1.941	2.744	
Thru Cal Phase - 6	deg	Master	-----	121.000	173.156	-119.000	
Thru Cal Mag - 7	V	Master	-----	0.846	1.396	1.974	
Thru Cal Phase - 7	deg	Master	-----	115.000	172.435	-125.000	
SPA		Master	-----	-50.000	-0.104	50.000	
SPA Plus	mV	Master	-----	941.000	990.202	1040.000	

Released to Imaging: 1/7/2024 11:43:00 AM

Temperature Zero	V	Master		-0.050	0.000	0.050	
Temperature Plus	V	Master		0.870	0.917	0.960	

Well: North Escavada Unit 2207-16B-WSW
Field: Sandoval
County: Sandoval
State: New Mexico

Platform Expres
Array Induction
with Linear Correlation

District I
1625 N. French Dr., Hobbs, NM 88240
Phone:(575) 393-6161 Fax:(575) 393-0720
District II
811 S. First St., Artesia, NM 88210
Phone:(575) 748-1283 Fax:(575) 748-9720
District III
1000 Rio Brazos Rd., Aztec, NM 87410
Phone:(505) 334-6178 Fax:(505) 334-6170
District IV
1220 S. St Francis Dr., Santa Fe, NM 87505
Phone:(505) 476-3470 Fax:(505) 476-3462

State of New Mexico
Energy, Minerals and Natural Resources
Oil Conservation Division
1220 S. St Francis Dr.
Santa Fe, NM 87505

CONDITIONS

Action 300683

CONDITIONS

Operator: NEW MEXICO ENERGY MINERALS & NATURAL RESOURCE 1220 S St Francis Dr Santa Fe , NM 87504	OGRID: 264235
	Action Number: 300683
	Action Type: [IM-SD] Well File Support Doc (ENG) (IM-AWF)

CONDITIONS

Created By	Condition	Condition Date
pgoetze	None	1/7/2024