

Initial Application Part I

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

RECEIVED: 10/28/2022	REVIEWER:	TYPE: SWD	APP NO: pAZS2233440365
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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: NEU 2207-16B ~~WSW~~ SWD No. 1 **API:** ~~SJ 4301 POD 1~~
Pool: SWD 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
- 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

- 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

FOR OCD ONLY	
<input type="checkbox"/>	Notice Complete
<input type="checkbox"/>	Application Content Complete

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.

Khem Suthiwan

Print or Type Name

Khem Suthiwan

Signature

_____ Date

303-350-5721

Phone Number

ksuthiwan@enduringresources.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 Disposal
_____ Storage
Application qualifies for administrative approval? _____ Yes _____ No

II. OPERATOR: Enduring Resources IV, LLC.

ADDRESS: 200 Energy Court, Farmington, New Mexico 87401

CONTACT PARTY: Khem Suthiwan PHONE: 303-350-5721

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 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 hydrologic data (hydrogeologic cross-sections 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: Khem Suthiwan TITLE: Regulatory Manager

SIGNATURE: *Khem Suthiwan* DATE: 10/28/2022

E-MAIL ADDRESS: ksuthiwan@enduringresources.com

XV. 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:

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 (NEU 2207-16B WSW) _____

WELL LOCATION: 1185' FNL, 1365' FEL _____ O _____ 16 _____ 22N _____ 7W _____
FOOTAGE LOCATION UNIT LETTER SECTION TOWNSHIP RANGE

WELLBORE SCHEMATIC

WELL CONSTRUCTION DATA

Surface Casing

Hole Size: _____ 17.5" _____ Casing Size: _____ 13 3/8" J55 _____
Cemented with: _____ 414 sx. **or** _____ ft³
Top of Cement: _____ Surface _____ Method Determined: _____ circ. _____

Intermediate Casing

Hole Size: _____ Casing Size: _____
Cemented with: _____ sx. **or** _____ ft³
Top of Cement: _____ Method Determined: _____

Production Casing

Hole Size: _____ 8.75" _____ Casing Size: _____ 7" L80 _____
Cemented with: _____ 945 sx. **or** _____ ft³
Top of Cement: _____ surface _____ Method Determined: _____ circ. _____
Total Depth: _____ 7304' PBTD

Injection Interval

_____ 6925' feet to 7114' _____

(Perforated or Open Hole; indicate which) **Perforated**

Side 2

INJECTION WELL DATA SHEET

Tubing Size: 4 1/2" _____ Lining Material: Internally coated corrosion resistant tubing_

Type of Packer: _____ 7" x 4 1/2" ASI-Packer _____

Packer Setting Depth: _____ 6900' _____

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: _Fruitland -400', Pictured Cliffs-700', Mancos-3,325', Gallup-3,525', Dakota-5,090'



III. Well Data

- a) Tabular information
 - i) Name: NEU 2207-16B WSW
API: SJ-4301 POD1
ULSTR: O-16-22N-07W
Footages: 1185' FNL 1365' FEL
 - ii) Surface Casing: 13 3/8" outer diameter, 54.5#, J-55 Steel, set to 387.7 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.
 - iii) Production Casing: 7" outer diameter, 26#, HCL-80 LTC Steel, set to 7,392 feet, plug back total depth 7,304 feet.
 - iv) Injection Tubing: 4 1/2", J-55, Internally plastic-coated set @ 6,900'
 - v) Packer: 7" x 4-1/2" AS1-X Packer @ 6,900'.
- b) Additional Information
 - i) Injection Pool: Entrada
 - ii) Injection Interval: 6,925' – 7114' (perforated)
 - iii) Original Purpose: The well, NEU 2207-16B WSW was originally used as a water diversion well for oil well fracturing.
 - iv) Other Intervals: None, N/A
 - v) Oil/Gas Zones: Fruitland Formation-400', Pictured Cliffs-700', Mancos Shale-3,325', Gallup Sandstone-3,525', Dakota Sandstone-5090'. The top of the Entrada is at 6,236 feet. The bottom of the closest overlying productive formation is at 5,360 feet. There will be 876 feet between the highest perforation and the bottom of the Dakota. A current wellbore diagram is included as Enclosure B and proposed wellbore diagram as Enclosure C.

IV. Proof of Notice

Enclosure D includes two active wells and one plugged and abandoned well that are within the half-mile area of review. The total vertical depth (TVD) of the deepest active well, N. Escavada Unit #317H, is 4,960 feet. The plugged and abandoned well, Dana State #001, has a TVD of 4,983 feet and is approximately 0.1 miles from the N Escavada Unit 2207-16B WSW. Top of the Entrada is 6,236 feet. Well schematic and plugging details are included as Enclosure E. Well details of the other two active wells within the ½ mile area of review are included as Enclosure F.

Enduring Resources IV, LLC. is the only oil and gas lease holders within the area of review. Notification of this application was given to the State of New Mexico via certified mail. In addition, the proof of publication is provided in Enclosure G. Notice of this application was published in the *Rio Rancho Observer*, a newspaper of general circulation in Sandoval County, New Mexico, as well as surrounding counties.

The following statement was advertised in the *Rio Rancho Observer* on October 27, 2022:

Ms. Khem Suthiwan, Regulatory Manager at Enduring Resources, LLC. 200 Energy Court, Farmington, New Mexico 87401 (303-350-5721), 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 water supply well N Escavada Unit 2207-16B, permitted with the New Mexico Office of the State Engineer, for the use as a Class II injection well. The well is located in Sandoval County, New Mexico at latitude 36.14407256°N longitude -107.5762770°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 Formation at depths between 6,925 feet and 7,114 feet below ground surface. Maximum injection rates and pressures are anticipated to be 20,000 barrels of water per day and 1,385 pounds per square inch, respectively. Interested parties may contact the Oil Conservation Division, 1220 South Saint Francis Drive, Santa Fe, New Mexico 87505, within 15 days.

Part VII. Proposed Operation

- 1) The proposed injection well will be used to dispose of produced water from wellbores operated by Enduring Resources, LLC. Maximum injection rate will be 20,000 barrels of water per day (bwpd) with an average of 8,000 bwpd.
- 2) The system will be closed.
- 3) The proposed average and maximum injection pressure will be 800 pounds per square inch (psi) psi average, with a maximum of 1,385 psi.
- 4) Injection fluid will be from present and future Enduring Resources, LLC wells in the San Juan Basin. Water analysis is attached as Enclosure H.
- 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 al 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 sample analysis from the well formation is included as Enclosure I.

Part VIII. Geologic Data

The proposed injection interval is the Entrada sandstone; Entrada (96436) pool. The Entrada formation underlies the Todilto formation. The Entrada is described as a fine to very fine-grained sandstone with fair to good porosity and permeability. The top of the Entrada is at 6,225 feet. The bottom of the closest overlying productive formation (Dakota) is at 5,350 feet. There will be 875 feet between the highest perforation and the bottom of the Dakota. Surface casing was set at 388’ bgs. Production casing was run past the Entrada interval and set at 7,304’ bgs. 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 current wellbore diagram is included as Enclosure B and the proposed wellbore diagram is included as Enclosure C.

The expected formation tops are as follows:

Ojo Alamo	70’
Kirtland	290’
Fruitland	400’
Pictured Cliffs	700’
Lewis	875’
Chacra	1,040’
Cliff House	1,425’
Menefee	2,175’



Point Lookout	3,100'
Mancos	3,325'
Gallup	3,525'
Base Greenhorn	5,040'
Dakota	5,090'
Morrison	5,350'
Todilto	6,170'
Entrada	6,225'

Point of Diversion data (POD) obtained from the New Mexico Office of the State Engineer (NMOSE) on 10/7/2022 indicates there are no water wells located within 1 mile of the proposed NEU 2207-16B water disposal well.

The NMOSE POD dataset also indicates the closest surface water diversion to the NEU 2207-16B water disposal well is SJ-04301-POD 5, which is located 5.27 miles southeast from NEU 2207-16B water disposal well.

IX. Stimulation Program

There is no proposed stimulation record.

X. Logging and Test Data

A triple combo log is attached as Enclosure J.

XI. Fresh Water Wells

A search for freshwater wells within one mile of the proposed disposal well was conducted using the New Mexico Office of the State Engineer website at <http://nmwrrs.ose.state.nm.us/nmwrrs/index.html>. The search returned no freshwater wells within one mile of the SJ-4301 POD1. A map showing the locations of the nearest wells is included as Enclosure K.

XII. Statement of Geologic and Engineering Data

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.

X 

Costin McQueen
Program Geologist (Contractor)

NEU 2207-16B

Sandoval Co., NM

1185' FNL, 1365' FEL, Sec. 16, T22N, R07W

36.143567°N, 107.576013°W

CONVERSION TO SALTWATER DISPOSAL



ENDURING RESOURCES, LLC

Well Construction Data:

- Production Casing Info: 7" 26# HCL-80 LTC @ 7,392'
 - o PBSD = 7,304'
 - o Fill @ 7,166'

Injection Well Data

- Tubing info: 4-1/2" plastic lined
- Packer = 7" x 4-1/2" AS1-X packer @ 6900'
- Formation = Entrada
- Name of Field/Pool = Entrada Pool 964360
- Injection interval = 6925' – 7114' (perforated)
 - o See wellbore diagram for perf depths and shot count
 - o Hole size = 0.45"

Proposed Operation

- Purpose and Use: Water disposal into Entrada formation
- Source of Water to be Used: Produced water from present and future wellbores operated by Enduring Resources
- Injection Rate = 20,000 bwpd max, 8,000 bwpd average
- Injection Pressure = 1,385 psi max, 800 psi average
- Closed system

ENCLOSURE A: SURVEY PLAT

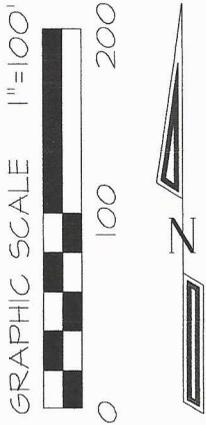
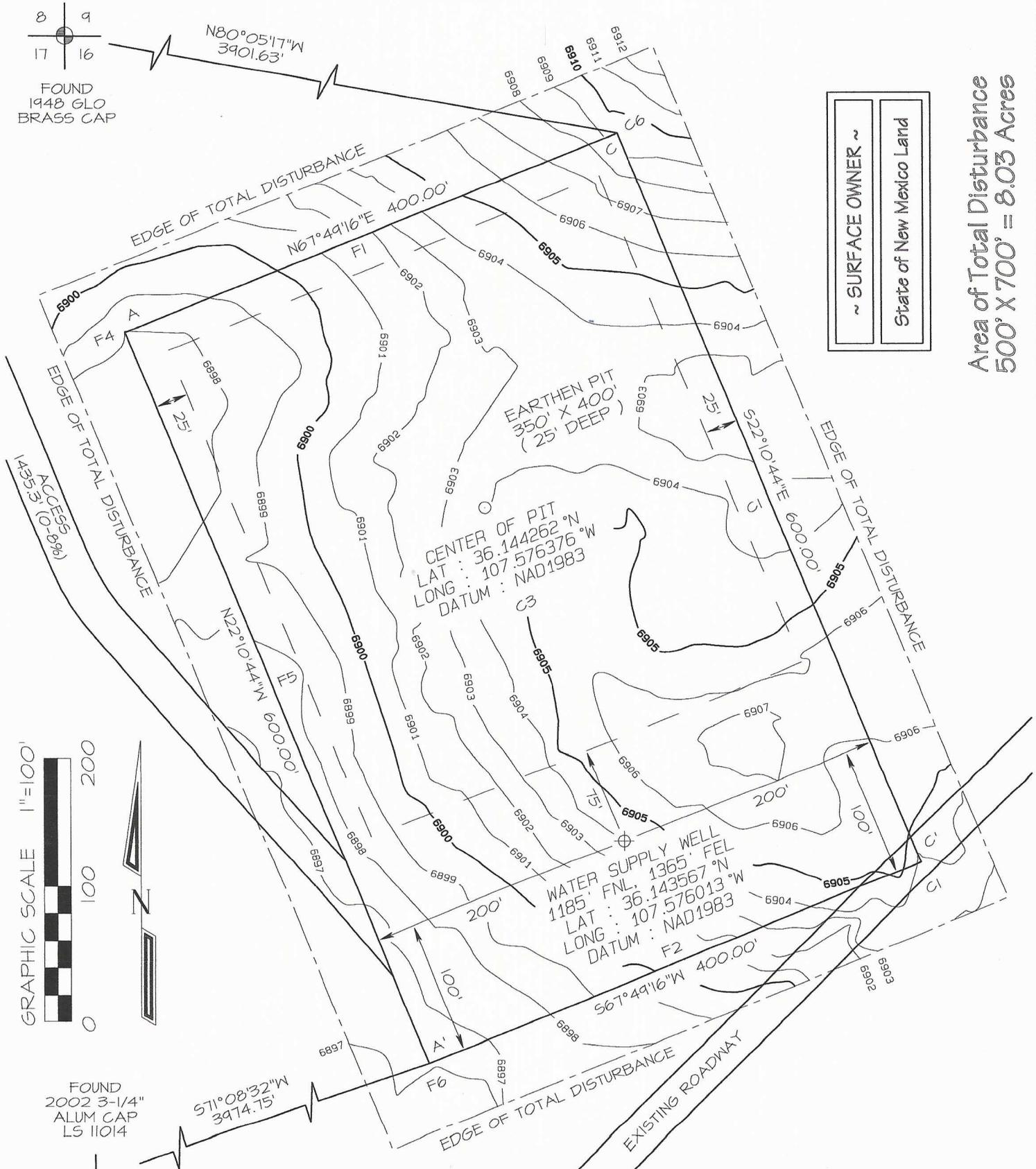
ENDURING RESOURCES NEU 2207-16B WATER RECYCLE FACILITY LOCATED IN NW/4 NE/4 OF SECTION 16, T22N, R7W, NMPM SANDOVAL COUNTY, NEW MEXICO ELEVATION: 6902' LAT: 36.144072°N LONG: 107.576276°W DATUM: NAD1983

8 9
17 16
FOUND
1948 GLO
BRASS CAP

N80°05'17"W
3901.63'

~ SURFACE OWNER ~
State of New Mexico Land

Area of Total Disturbance
500' X 700' = 8.03 Acres



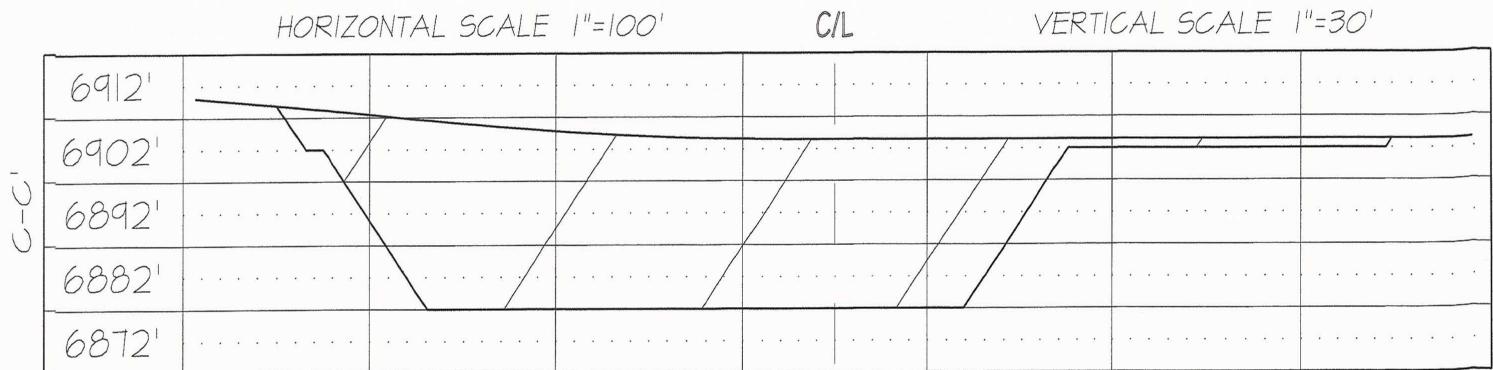
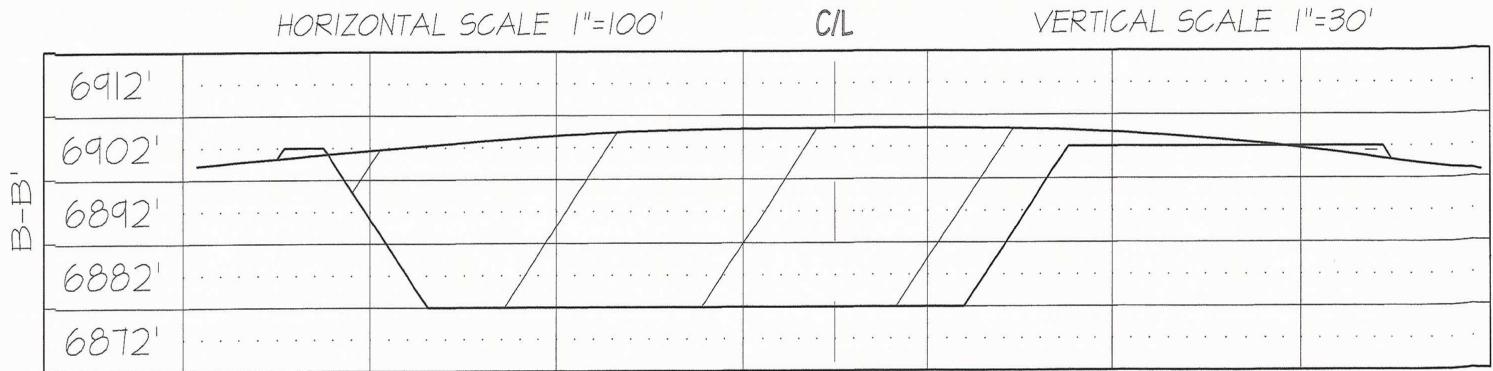
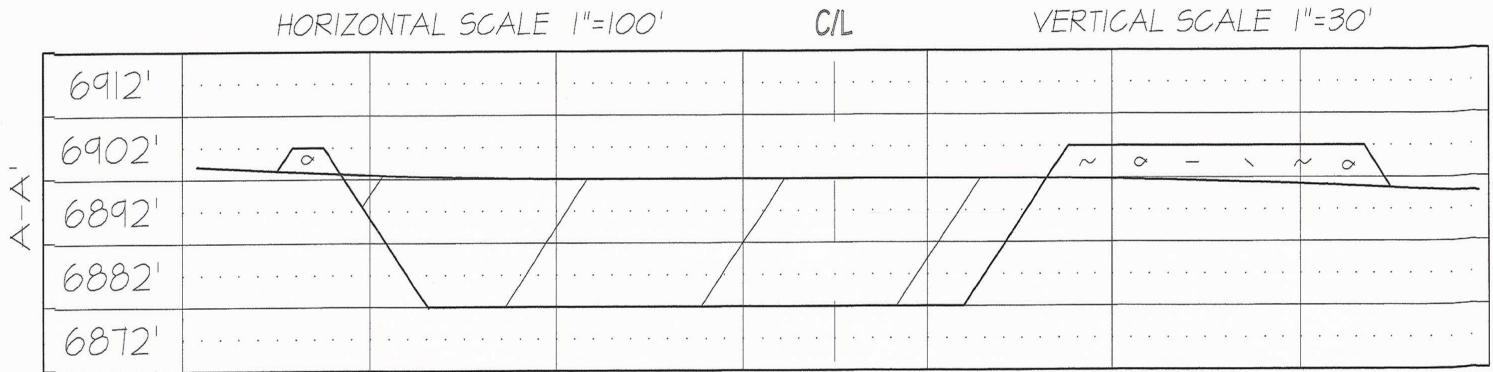
FOUND
2002 3-1/4\"
ALUM CAP
LS 11014

S71°08'32"W
3974.75'

17 16

Steel T-Posts have been set to define Edge of Disturbance
limits which are 50' offset from the edge of staked fracturing site.

**ENDURING RESOURCES, LLC NEU 2207-16B WATER RECYCLE FACILITY
 LOCATED IN NW/4 NE/4 OF SECTION 16, T22N, R7W, NMPM
 SANDOVAL COUNTY, NEW MEXICO ELEVATION: 6902'**



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, LLC NEU 2207-16B WATER RECYCLE FACILITY

1185' FNL & 1365' FEL, SECTION 16, T22N, R7W, N.M.P.M.
SANDOVAL COUNTY, NEW MEXICO



U.S. HIGHWAY #550

ATKINS ROAD

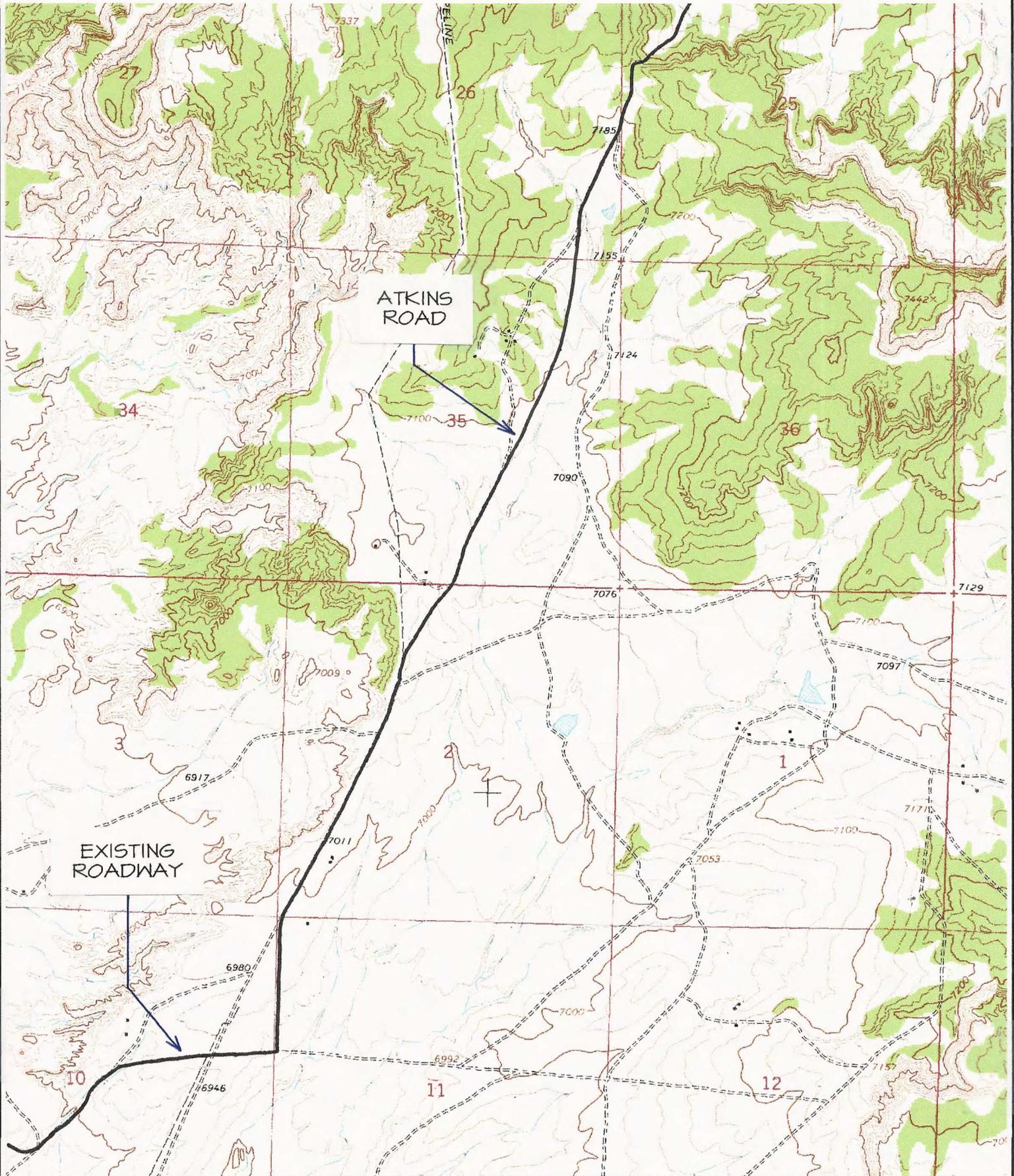
NAME OF TOPO MAP : LYBROOK

⊕ PRODUCING WELL

⊗ PLUGGED & ABANDONED WELL

ENDURING RESOURCES, LLC NEU 2207-16B WATER RECYCLE FACILITY

1185' FNL & 1365' FEL, SECTION 16, T22N, R7W, N.M.P.M.
SANDOVAL COUNTY, NEW MEXICO



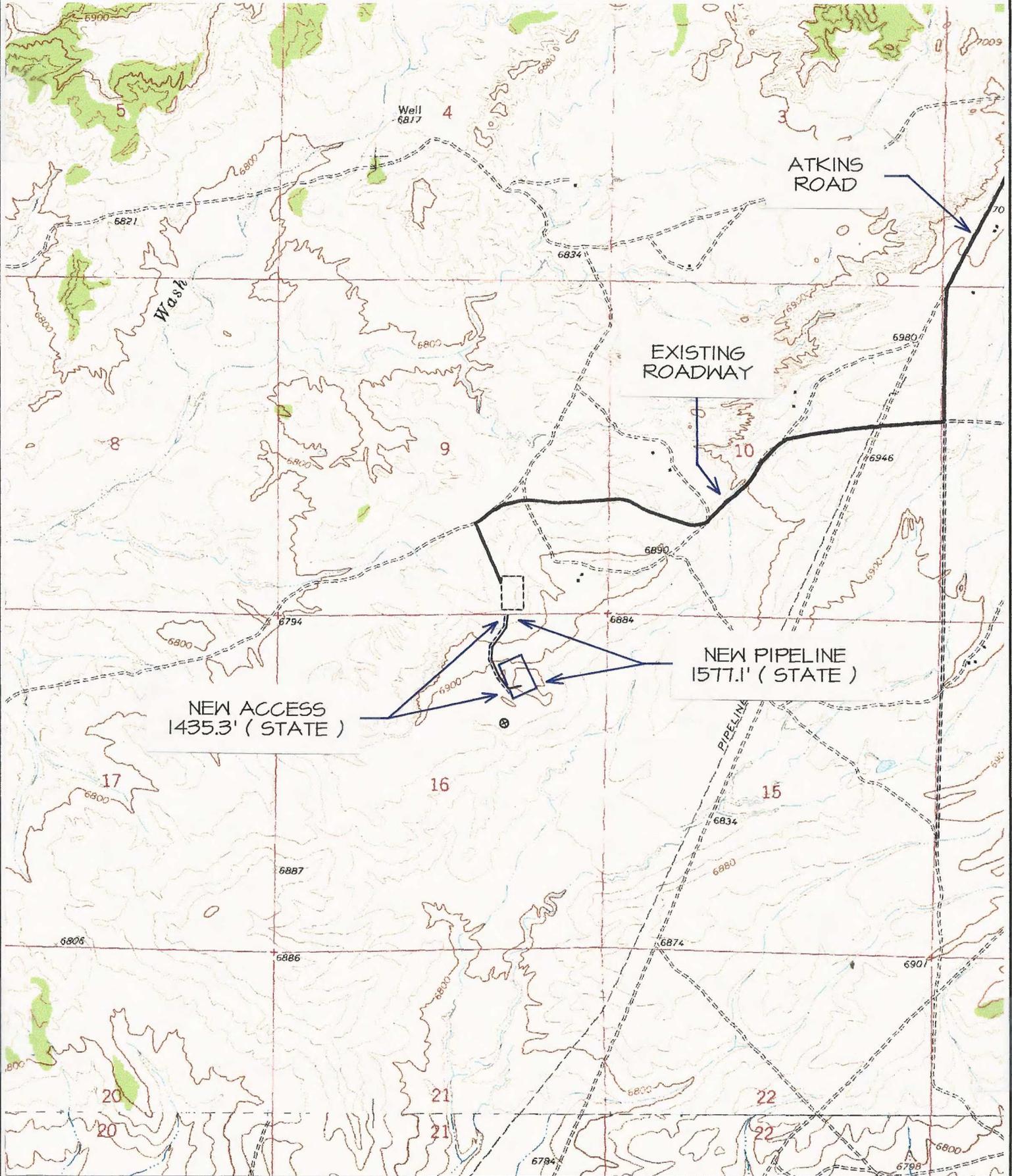
NAME OF TOPO MAP : LYBROOK

⊕ PRODUCING WELL

⊗ PLUGGED & ABANDONED WELL

ENDURING RESOURCES, LLC NEU 2207-16B WATER RECYCLE FACILITY

1185' FNL & 1365' FEL, SECTION 16, T22N, R7W, N.M.P.M.
SANDOVAL COUNTY, NEW MEXICO



NAME OF TOPO MAP : LYBROOK

⊕ PRODUCING WELL

⊗ PLUGGED & ABANDONED WELL

Directions from the Intersection of US Hwy 550 & US Hwy 64
in Bloomfield, NM to Enduring Resources, LLC NEU 2207-16B Water Recycle Facility
1185' FNL & 1365' FEL, Section 16, T22N, R7W, N.M.P.M., Sandoval County, NM

Latitude: 36.143567°N Longitude: 107.576013°W Datum: NAD1983

From the intersection of US Hwy 550 & US Hwy 64 in Bloomfield, NM, travel Southerly on US Hwy 550 for 48.9 miles to Mile Marker 103.1;

Go Right (Southerly) on Atkins Road for 5.9 miles to 4-way intersection;

Go Right (Westerly) exiting Atkins Road onto existing roadway for 1.6 miles to fork in roadway;

Go Left (Southerly) on existing roadway for 0.2 miles to existing Enduring N Escavada Unit #317H location, from south edge of existing location and section 16 section line which begin new access continues for an additional 1435.3' to staked Enduring NEU 2207-16B Water Recycle Facility location.

June 6, 2018

**NEW MEXICO STATE APPLICATION
 ENDURING RESOURCES, LLC
 NEU 2207-16B WATER RECYCLE FACILITY
 NW/4 NE/4 SECTION 16
 TOWNSHIP 22 NORTH, RANGE 7 WEST, N.M.P.M.
 SANDOVAL COUNTY, NEW MEXICO**

A strip of land 30 feet wide across a portion of Section 16, Township 22 North, Range 7 West, N.M.P.M., Sandoval County, New Mexico being 10 feet to west side and 20 feet to east side, perpendicular to the following described centerline:

Commencing at the North Quarter-Section Corner of said Section 16, thence S89°37'38"E a distance of 1011.80 feet to the "true point-of-beginning" for this description;
 Thence S07°07'14"W a distance of 205.15 feet to a point;
 Thence S38°44'23"W a distance of 404.29 feet to a point;
 Thence S02°39'19"W a distance of 238.33 feet to a point;
 Thence S22°10'32"E a distance of 261.38 feet to a point;
 Thence S40°57'22"E a distance of 326.19 feet to the "true point-of-ending" for this description from whence the East Quarter-Section Corner of said Section 16 bears S47°16'12"E a distance of 2067.08 feet.

The above described strip of land totals 1435.34 feet or 86.990 rods in length, contains 0.989 acres more or less, and is allocated by 40-acre tracts as follows:

Section 16	NW/4 NE/4	1435.34 Feet	86.990 Rods	0.989 Acre(s)
	Total	1435.34 Feet	86.990 Rods	0.989 Acre(s)

BASIS OF BEARING: REAL-TIME KINEMATIC GPS SURVEY SOLUTION OBTAINED FROM SATELLITES TRACKED ON MAY 9, 2018 FROM A REFERENCE STATION POSITIONED IN THE SW/4 SW/4 SECTION 16, T22N, R7W, SANDOVAL COUNTY, NEW MEXICO.

SURVEYOR'S CERTIFICATION

I, JASON C. EDWARDS, NEW MEXICO PROFESSIONAL SURVEYOR NO. 15269, DO HEREBY CERTIFY THAT THIS SURVEY DESCRIPTION AND THE ACTUAL SURVEY ON THE GROUND UPON WHICH IT IS BASED WERE PERFORMED BY ME OR UNDER MY DIRECT SUPERVISION; THAT I AM RESPONSIBLE FOR THIS SURVEY; THAT THIS SURVEY MEETS THE MINIMUM STANDARDS FOR SURVEYING IN NEW MEXICO; AND THAT IT IS TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF. I FURTHER CERTIFY THAT THIS SURVEY IS NOT A LAND DIVISION OR SUBDIVISION AS DEFINED IN THE NEW MEXICO SUBDIVISION ACT.

JASON C. EDWARDS
 JASON C. EDWARDS, NEW MEXICO LS #15269
 REFERENCE DRAWING: 22716AP1



ENCLOSURE B: CURRENT WBD

API #:30-043-XXXXX

Spud Date: 9/20/2018

Completion Date: 10/13/2018

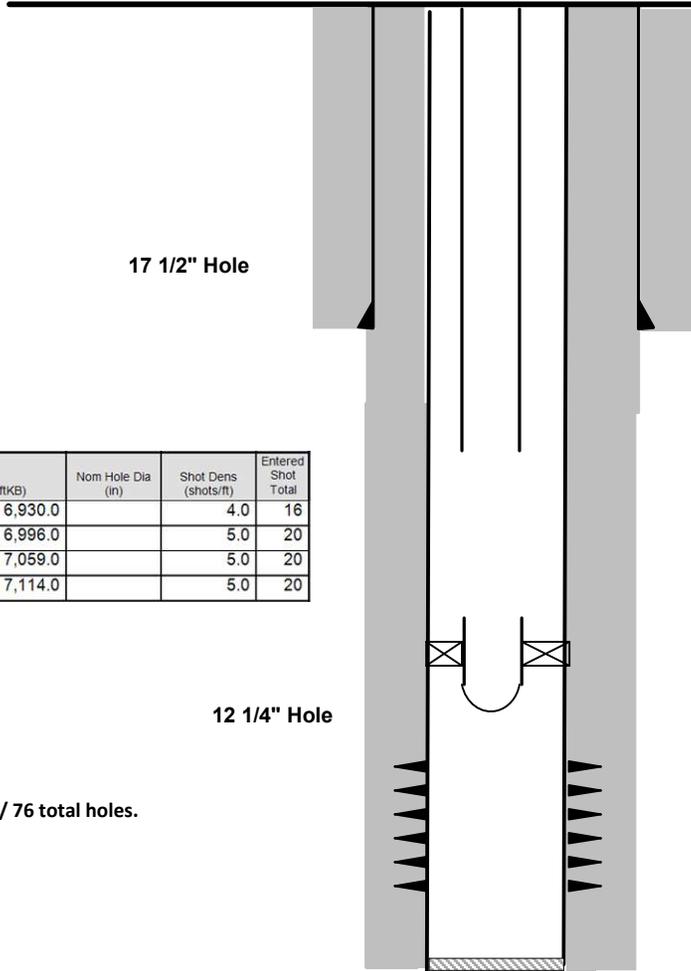
SHL: 1185' FNL 1365' FEL
 BHL: 1185' FNL 1365' FEL

Sec: 16 Twnshp: 22N Rge: 7W
 Sec: 16 Twnshp: 22N Rge: 7W

Lat: 36.143567 N Long: 107.576013 W
 Entrada
 County: Sandoval NM
 Elevation: 6917'

Created By: mwarp 11/9/2018
 Modified By: TJOYCE 6/24/19
 Modified By: Clongwell 10/6/2022

Current Wellbore



13 3/8" Surface 54.5# J-55 @
 387.7'. Circulated cmt to surface w/
 414 sx Class G cmt.

7" Production 26# HCL-80 to 7,392' (LT&C).
PBTD = 7,302'. 80 bbls tuned spacer, lead
 184 bbls 12.3# Econocem (525 sxs). Tail 101
 bbl 13.3# Extendacem (420 sxs). Displaced
 w/ 280 bbls H2O, dropped plug, floats held.
 Circulated 40 bbl good cement to surface.
 Top of tail 4,352'.

BHA Detail: (10/6/2022)
 2 3/8" tubing at 3,013'
 Packer with pump out plug set at 6,859'

Top (ftKB)	Btm (ftKB)	Nom Hole Dia (in)	Shot Dens (shots/ft)	Entered Shot Total
6,925.0	6,930.0		4.0	16
6,991.0	6,996.0		5.0	20
7,049.0	7,059.0		5.0	20
7,109.0	7,114.0		5.0	20

17 1/2" Hole

12 1/4" Hole

Perf'd @ 6925'-7,114' , w/ 76 total holes.

ENCLOSURE C: PROPOSED WBD

N Escavada Unit 2207-16B - Proposed

API #:30-043-XXXXX

Spud Date: 9/20/2018

Completion Date: 10/13/2018

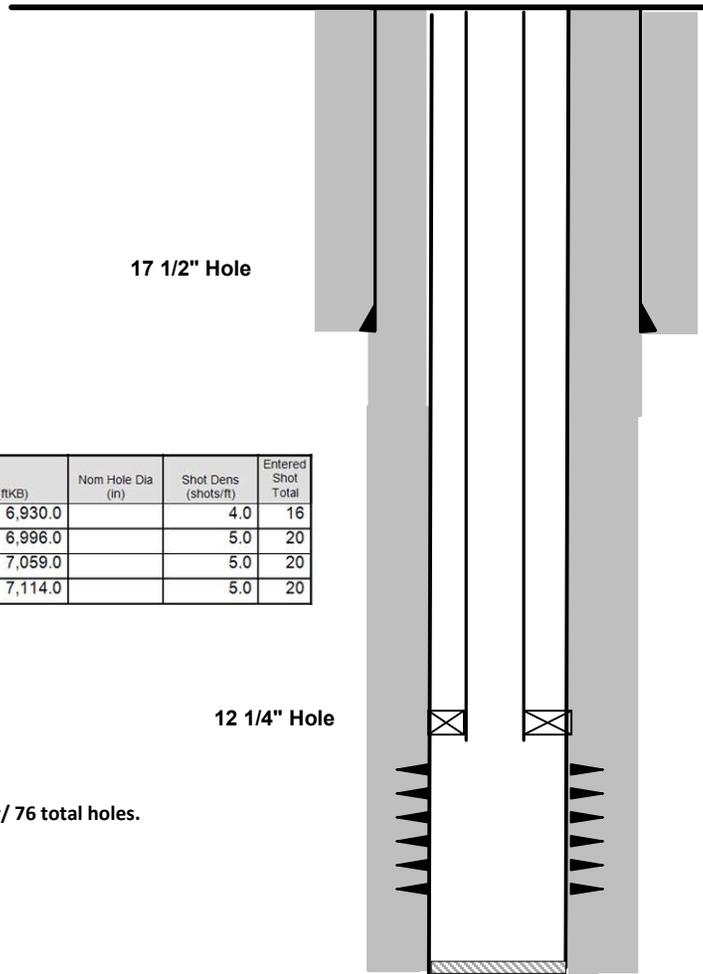
SHL: 1185' FNL 1365' FEL
 BHL: 1185' FNL 1365' FEL

Sec: 16 Twnshp: 22N Rge: 7W
 Sec: 16 Twnshp: 22N Rge: 7W

Lat: 36.143567 N Long: 107.576013 W
 Entrada
 County: Sandoval NM
 Elevation: 6917'

Created By: Clongwell 10/6/2022

Current Wellbore



13 3/8" Surface 54.5# J-55 @ 387.7'.
 Circulated cmt to surface w/ 414 sx
 Class G cmt. BURST = 2730 psi

7" Production 26# HCL-80 to 7,392' (LT&C).
PBTD = 7,302'. 80 bbls tuned spacer, lead
 184 bbls 12.3# Econocem (525 sxs). Tail 101
 bbl 13.3# Extendacem (420 sxs). Displaced
 w/ 280 bbls H2O, dropped plug, floats held.
 Circulated 40 bbl good cement to surface.
 Top of tail 4,352'.

BHA Detail:
 4 1/2" Plastic Lined Tubing
 7" x 4 1/2" AS1-X Packer at 6,900'

Top (ftKB)	Btm (ftKB)	Nom Hole Dia (in)	Shot Dens (shots/ft)	Entered Shot Total
6,925.0	6,930.0		4.0	16
6,991.0	6,996.0		5.0	20
7,049.0	7,059.0		5.0	20
7,109.0	7,114.0		5.0	20

Perf'd @ 6925'-7,114' , w/ 76 total holes.

ENCLOSURE D: ABULATION OF DATA

Wells Located within 1/2 mile radius of proposed SWD well (N Escavada Unit 2207-16B WSW POD 1)														
Count	API	Name	Type	Status	OGRID	County	ULSTR	Footage	Plug Date	Entrada Penetration	Spud Date	Measured Depth	True Vertical Depth	Current Operator
1	30-043-20165	DANA STATE #001	Oil	Plugged (site released)	10413	Sandoval	G-16-22N-07W	1710 FNL 1710 FEL	2/16/2009	No	3/15/1975	4983'	4983'	HICKS OIL & GAS INC
2	30-043-21295	N ESCAVADA UNIT #317H	Oil	Active	372286	Sandoval	O-09-22N-07W	228 FSL 1547 FEL	--	No	9/25/2017	15115'	4960'	ENDURING RESOURCES, LLC
3	30-043-21301	N ESCAVADA UNIT #318H	Oil	Active	372286	Sandoval	O-09-22N-07W	268 FSL 1548 FEL	--	No	9/26/2017	12922'	4944'	ENDURING RESOURCES, LLC
Wells Located within 2 mile radius of proposed SWD well (N Escavada Unit 2207-16B WSW POD 1)														
1	30-043-21286	N ESCAVADA UNIT #328H	Oil	Active	372286	Sandoval	I-10-22N-07W	1918 FSL 1267 FEL	--	No	6/13/2017	11004'	5074'	ENDURING RESOURCES, LLC
2	30-043-20281	DOME FEDERAL 15-22-7 #001	Gas	Active	6515	Sandoval	P-15-22N-07W	900 FSL 1190 FEL	--	No	1/16/1979	1950'	1950'	DUGAN PRODUCTION CORP
3	30-043-20203	PRE-ONGARD WELL #002	Gas	Plugged (site released)	214263	Sandoval	C-23-22N-07W	800 FNL 1640 FWL	5/16/1985	No	1/28/1976	0	2004'	PRE-ONGARD WELL OPERATOR
4	30-043-20232	PRE-ONGARD WELL #005	Gas	Plugged (site released)	214263	Sandoval	A-22-22N-07W	790 FNL 790 FEL	4/16/1985	No	12/31/0999	0	0	PRE-ONGARD WELL OPERATOR
5	30-043-20449	DOME NAVAJO 3 22-7 #001	Oil	Active	6515	Sandoval	I-03-22N-07W	1660 FSL 1980 FEL	--	No	2/13/1980	5208'	5208'	DUGAN PRODUCTION CORP
6	30-043-21285	N ESCAVADA UNIT #314H	Oil	Active	372286	Sandoval	I-10-22N-07W	1900 FSL 1275 FEL	--	No	6/12/2017	13900'	5093'	ENDURING RESOURCES, LLC
7	30-043-21284	N ESCAVADA UNIT #313H	Oil	Active	372286	Sandoval	I-10-22N-07W	1937 FSL 1259 FEL	--	No	6/14/2017	12847'	5106'	ENDURING RESOURCES, LLC
8	30-043-20484	DOME FEDERAL 10-22-7 #001	Gas	Active	6515	Sandoval	H-10-22N-07W	1560 FNL 860 FEL	--	No	9/10/1980	2320'	2320'	DUGAN PRODUCTION CORP
9	30-043-21294	N ESCAVADA UNIT #312H	Oil	Active	372286	Sandoval	O-11-22N-07W	515 FSL 2378 FEL	--	No	9/13/2017	15435'	5093'	ENDURING RESOURCES, LLC
10	30-043-21302	N ESCAVADA UNIT #311H	Oil	Active	372286	Sandoval	O-11-22N-07W	524 FSL 2339 FEL	--	No	9/14/2017	13425'	5148'	ENDURING RESOURCES, LLC
11	30-043-21313	W ESCAVADA UNIT #306H	Oil	Active	372286	Sandoval	M-17-22N-07W	517 FSL 220 FWL	--	No	12/6/2018	15420'	4673'	ENDURING RESOURCES, LLC
12	30-043-21309	W ESCAVADA UNIT #305H	Oil	Active	372286	Sandoval	M-17-22N-07W	497 FSL 220 FWL	--	No	12/5/2018	15745'	4703'	ENDURING RESOURCES, LLC
13	30-043-20480	DOME NAVAJO 17-22-07 #002	Gas	Active	6515	Sandoval	K-17-22N-07W	1820 FSL 1570 FWL	--	No	9/19/1980	1920'	1920'	DUGAN PRODUCTION CORP
14	30-043-20347	PRE-ONGARD WELL #001	Gas	Plugged (site released)	214263	Sandoval	I-17-22N-07W	1660 FSL 1060 FEL	5/13/1983	No	7/17/1978	0	1875'	PRE-ONGARD WELL OPERATOR
15	30-043-20319	DOME RUSTY 20-22-7 #001	Gas	Active	6515	Sandoval	P-20-22N-07W	790 FSL 790 FEL	--	No	6/23/1978	2150'	2150'	DUGAN PRODUCTION CORP
16	30-043-20408	DOME NAVAJO 20-22-7 #001	Gas	Active	6515	Sandoval	H-20-22N-07W	1600 FNL 990 FEL	--	No	1/9/1979	3700'	3700'	DUGAN PRODUCTION CORP
17	30-043-21307	W ESCAVADA UNIT #304H	Oil	Active	372286	Sandoval	P-17-22N-07W	235 FSL 248 FEL	--	No	7/7/2018	15864'	4855'	ENDURING RESOURCES, LLC
18	30-043-21305	W ESCAVADA UNIT #302H	Oil	Active	372286	Sandoval	P-17-22N-07W	235 FSL 208 FEL	--	No	7/6/2018	13638'	4857'	ENDURING RESOURCES, LLC
19	30-043-20165	DANA STATE #001	Oil	Plugged (site released)	10413	Sandoval	G-16-22N-07W	1710 FNL 1710 FEL	2/16/2009	No	3/15/1975	4983'	4983'	HICKS OIL & GAS INC
20	30-043-20345	PRE-ONGARD WELL #001	Gas	Plugged (site released)	214263	Sandoval	F-09-22N-07W	1590 FNL 1700 FWL	4/18/1989	No	8/3/1978	0	1975'	PRE-ONGARD WELL OPERATOR
21	30-043-20309	CHACRA #002	Gas	Active	6515	Sandoval	O-21-22N-07W	1160 FSL 1600 FEL	--	No	12/12/1977	2004'	2004'	DUGAN PRODUCTION CORP
22	30-043-21108	SHAW COM #001	Gas	Active	6515	Sandoval	M-16-22N-07W	990 FSL 660 FWL	--	No	5/16/2011	1400'	1349'	DUGAN PRODUCTION CORP
23	30-043-21306	W ESCAVADA UNIT #303H	Oil	Active	372286	Sandoval	P-17-22N-07W	235 FSL 228 FEL	--	No	7/6/2018	15588'	4826'	ENDURING RESOURCES, LLC
24	30-043-21112	BASIE COM #001	Gas	Active	6515	Sandoval	D-21-22N-07W	990 FNL 800 FWL	--	No	5/5/2011	1400'	1348'	DUGAN PRODUCTION CORP
25	30-043-21888	N ESCAVADA UNIT #315H	Oil	Active	372286	Sandoval	L-10-22N-07W	1583 FSL 250 FWL	--	No	9/18/2017	13308'	5000'	ENDURING RESOURCES, LLC
26	30-043-21295	N ESCAVADA UNIT #317H	Oil	Active	372286	Sandoval	O-09-22N-07W	228 FSL 1547 FEL	--	No	9/25/2017	15115'	4960'	ENDURING RESOURCES, LLC
27	30-043-21300	N ESCAVADA UNIT #316H	Oil	Active	372286	Sandoval	L-10-22N-07W	1590 FSL 211 FWL	--	No	9/20/2017	14580'	5010'	ENDURING RESOURCES, LLC
28	30-043-20282	NAVAJO 21-22-7 #001	Gas	Plugged (site released)	6515	Sandoval	A-21-22N-07W	1040 FNL 1190 FEL	12/17/2001	No	5/30/1978	1882'	1882'	DUGAN PRODUCTION CORP
29	30-043-20308	CHACRA #001	Gas	Active	6515	Sandoval	D-10-22N-07W	1070 FNL 880 FWL	--	No	2/9/1978	2105'	2105'	DUGAN PRODUCTION CORP
30	30-043-21301	N ESCAVADA UNIT #318H	Oil	Active	372286	Sandoval	O-09-22N-07W	268 FSL 1548 FEL	--	No	9/26/2017	12922'	4944'	ENDURING RESOURCES, LLC
31	30-043-21299	N ESCAVADA UNIT #330H	Oil	Temporary Abandonment	372286	Sandoval	L-10-22N-07W	1587 FSL 231 FWL	--	No	9/19/2017	12088'	4943'	ENDURING RESOURCES, LLC
32	30-043-20264	PRE-ONGARD WELL #007	Gas	Plugged (site released)	214263	Sandoval	M-22-22N-07W	790 FSL 1150 FWL	4/16/1985	No	4/16/1977	0	2015'	PRE-ONGARD WELL OPERATOR
33	30-043-20346	NAVAJO 10-22-7 #001	Gas	Active	6515	Sandoval	N-10-22N-07W	1180 FSL 1790 FWL	--	No	7/13/1978	2050'	2050'	DUGAN PRODUCTION CORP
34	30-043-21298	N ESCAVADA UNIT #331H	Oil	Active	372286	Sandoval	L-10-22N-07W	1594 FSL 192 FWL	--	No	9/21/2017	11025'	4915'	ENDURING RESOURCES, LLC
35	30-043-20542	DOME TESERO 22 #004	Oil	Active	6515	Sandoval	C-22-22N-07W	850 FNL 1700 FWL	--	No	2/21/1981	5000'	5000'	DUGAN PRODUCTION CORP
36	30-043-21287	N ESCAVADA UNIT #329H	Oil	Active	372286	Sandoval	I-10-22N-07W	1881 FSL 1282 FEL	--	No	5/26/2016	11101'	5032'	ENDURING RESOURCES, LLC

ENCLOSURE : DANA STATE #001 P&A DETAILS

Submit 3 Copies To Appropriate District Office
District I
1625 N. French Dr., Hobbs, NM 88240
District II
1301 W. Grand Ave., Artesia, NM 88210
District III
1000 Rio Brazos Rd., Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico
Energy, Minerals and Natural Resources

Form C-103
May 27, 2004

OIL CONSERVATION DIVISION
1220 South St. Francis Dr.
Santa Fe, NM 87505

WELL API NO. 30-043-20165
5. Indicate Type of Lease STATE <input checked="" type="checkbox"/> FEE <input type="checkbox"/>
6. State Oil & Gas Lease No. K04844 EXPIRED 4/30/2004
7. Lease Name or Unit Agreement Name DANA STATE
8. Well Number 1
9. OGRID Number 10413
10. Pool name or Wildcat RUSTY GALLUP

SUNDRY NOTICES AND REPORTS ON WELLS
(DO NOT USE THIS FORM FOR PROPOSALS TO DRILL OR TO DEEPEN OR PLUG BACK TO A DIFFERENT RESERVOIR. USE "APPLICATION FOR PERMIT" (FORM C-101) FOR SUCH PROPOSALS.)

1. Type of Well: Oil Well Gas Well Other

2. Name of Operator
HICKS OIL & GAS, INC

3. Address of Operator
P.O. Box 3307, FARMINGTON, NM 87499-3307

4. Well Location
Unit Letter **G** : **1710** feet from the **NORTH** line and **1710** feet from the **EAST** line
Section **10** Township **22N** Range **7W** NMPM County **SANDOVAL**

11. Elevation (Show whether DR, RKB, RT, GR, etc.)
6891 GR

Pit or Below-grade Tank Application or Closure

Pit type _____ Depth to Groundwater _____ Distance from nearest fresh water well _____ Distance from nearest surface water _____

Pit Liner Thickness: _____ mil Below-Grade Tank: Volume _____ bbls; Construction Material _____

12. Check Appropriate Box to Indicate Nature of Notice, Report or Other Data

NOTICE OF INTENTION TO:		SUBSEQUENT REPORT OF:	
PERFORM REMEDIAL WORK <input type="checkbox"/>	PLUG AND ABANDON <input checked="" type="checkbox"/>	REMEDIAL WORK <input type="checkbox"/>	ALTERING CASING <input type="checkbox"/>
TEMPORARILY ABANDON <input type="checkbox"/>	CHANGE PLANS <input type="checkbox"/>	COMMENCE DRILLING OPNS. <input type="checkbox"/>	P AND A <input type="checkbox"/>
PULL OR ALTER CASING <input type="checkbox"/>	MULTIPLE COMPL. <input type="checkbox"/>	CASING/CEMENT JOB <input type="checkbox"/>	
OTHER: <input type="checkbox"/>		OTHER: <input type="checkbox"/>	

13. Describe proposed or completed operations. (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work). SEE RULE 1103. For Multiple Completions: Attach wellbore diagram of proposed completion or recompletion.

HICKS OIL & GAS, INC PLANS TO PLUG & ABANDON SUBJECT WELL PER THE ATTACHED.

RCUD APR 16 '08
OIL CONS. DIV.
DIST. 3

I hereby certify that the information above is true and complete to the best of my knowledge and belief. I further certify that any pit or below-grade tank has been/will be constructed or closed according to NMOCD guidelines a general permit or an (attached) alternative OCD-approved plan .

SIGNATURE *Jim Hicks* TITLE AGENT DATE 4/15/2008

Type or print name Jim Hicks E-mail address: hoginc@quest Telephone No. 505-327-4902
For State Use Only

APPROVED BY: *[Signature]* TITLE Deputy Oil & Gas Inspector, District #3 DATE APR 23 2008

Conditions of Approval (if any): Add Chacra plug; Inside and outside pipe

PLUG AND ABANDONMENT PROCEDURE

Dana State #1

Wildcat Gallup

1710' FNL & 1710' FEL, Section 16, T22N, R7W
Sandoval County, New Mexico, API #30-043-20165

Note: All cement volumes use 100% excess outside pipe and 50' excess inside pipe. The stabilizing wellbore fluid will be 8.3 ppg, sufficient to balance all exposed formation pressures. All cement will be ASTM Type G, mixed at 15.8 ppg with a 1.15 cf/sx yield.

1. Install and test location rig anchors. Prepare blow pit. Comply with all NMOCD, BLM, and Hicks safety regulations. MOL and RU daylight pulling unit. Conduct safety meeting for all personnel on location. NU relief line and blow down well; kill with water as necessary. ND wellhead and NU BOP. Test BOP.
2. TOH and tally 2.375" tubing, total tally, 4714'. If necessary LD tubing and PU workstring. Round trip 4.5" gauge ring or casing scraper to 4736'.
3. **Plug #1 (Gallup perforations and top, 4736' – 4636')**: TIH and set CR at 4736'. Pressure test tubing to 1000 PSI. Pressure test casing to 800 PSI. *If casing does not test then spot or tag subsequent plugs as appropriate.* Spot 12 sxs Type III cement above CR to isolate the Gallup interval. TOH with tubing.
4. **Plug #2 (Mesaverde top, 2444' – 2344')**: Perforate 3 squeeze holes at 2444'. Attempt to establish rate into squeeze holes if the casing pressure tested. Set 4.5" cement retainer at 2394'. Establish rate into squeeze holes. Mix and pump 52 sxs cement, squeeze 40 sxs outside the 4.5" casing and leave 12 sxs inside the casing to cover the Mesaverde top. TOH with tubing.
- **Plug #3 (Chacra TOP 1990 plug inside & outside perf @ 148050 squeeze)**
5. **Plug #4 (Pictured Cliffs, Fruitland, Kirtland tops, 1467' – 1052')**: Perforate 3 squeeze holes at 1467'. Attempt to establish rate into squeeze holes if the casing pressure tested. Set 4.5" cement retainer at 1417'. Establish rate into squeeze holes. Mix and pump 202 sxs cement, squeeze 165 sxs outside the 4.5" casing and leave 37 sxs inside the casing to cover through the Kirtland top. TOH with tubing.
6. **Plug #5 (Ojo Alamo top, 961' – 861')**: Perforate 3 squeeze holes at 961'. Attempt to establish rate into squeeze holes if the casing pressure tested. Set 4.5" cement retainer at 911'. Establish rate into squeeze holes. Mix and pump 52 sxs cement, squeeze 40 sxs outside the 4.5" casing and leave 12 sxs inside the casing to cover the Ojo Alamo top. TOH and LD tubing.
7. **Plug #6 (8.625" casing shoe and surface, 182' - Surface)**: Perforate 3 squeeze holes at 182'. Establish circulation out the bradenhead valve with water. Mix and pump approximately 75 sxs cement down the 4.5" casing to circulate good cement out bradenhead valve. Shut well in and WOC.
8. ND BOP and cut off wellhead below surface casing flange. Install P&A marker with cement to comply with regulations. RD, MOL and cut off anchors. Restore location per BLM stipulations.

OCD

Dana State #1 Proposed P&A

Wildcat Gallup

1710' FNL & 1710' FEL, NE, Section 16, T-22-N, R-7-W

Sandoval County, NM / API #30-043-20165

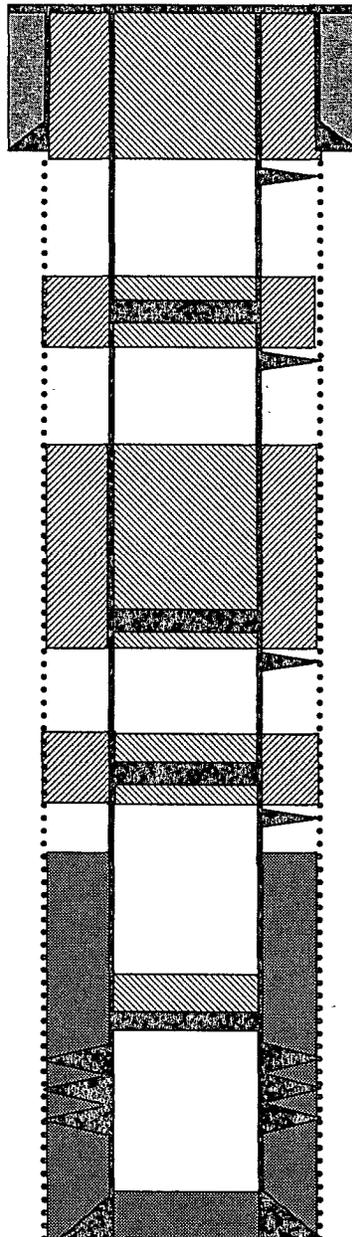
Today's Date: 2/7/2008

Spud: 3/15/75

Completion: 7/14/75

Elevation: 6891' GI
6904' KB

12.25" hole



8.625" 24#, Grade H Casing set @ 132'
Cement with 90 sxs (Circulated to Surface)

Perforate @ 182'

Plug #5: 182' - 0'
Type G Cement, 75 sxs

Ojo Alamo @ 911'

Cmt Retainer @ 911'

Plug #4: 961' - 861'
Type G Cement, 52 sxs:
40 outside and 12 inside

Perforate @ 961'

Kirtland @ 1102'

Fruitland @ 1182'

Plug #3: 1467' - 1052'
Type G Cement, 202 sxs:
165 outside and 37 inside

Cmt Retainer @ 1417'

Perforate @ 1467'

Pictured Cliffs @ 1417'

Mesaverde @ 2394'

Cmt Retainer @ 2394'

Perforate @ 2444'

Plug #2: 2444' - 2344'
Type G Cement, 52 sxs:
40 outside and 12 inside

TOC @ 2517' (Calc, 75%)

Gallup @ 4785'

Set CR @ 4736'

Plug #1: 4736' - 4636'
Type G Cement, 12 sxs

Gallup Perforations:
4786' - 4936'

7.875" hole

4.5" 10.5#, Casing set @ 4980'
Cemented with 600 sxs (748 cf)

TD 4983'
PBD 4946'

Submit 3 Copies To Appropriate District Office
District I
1625 N. French Dr., Hobbs, NM 88240
District II
1301 W Grand Ave., Artesia, NM 88210
District III
1000 Rio Brazos Rd., Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico
Energy, Minerals and Natural Resources

Form C-103
May 27, 2004

OIL CONSERVATION DIVISION
1220 South St. Francis Dr.
Santa Fe, NM 87505

WELL API NO. 30-045-20165 043
5. Indicate Type of Lease STATE X FEE
6. State Oil & Gas Lease No. K-04844 expired 4/30/04
7. Lease Name or Unit Agreement Name Dana State
8. Well Number 1
9. OGRID Number 10413
10. Pool name or Wildcat Rusty Gallup

SUNDRY NOTICES AND REPORTS ON WELLS
(DO NOT USE THIS FORM FOR PROPOSALS TO DRILL OR TO DEEPEN OR PLUG BACK TO A DIFFERENT RESERVOIR. USE "APPLICATION FOR PERMIT" (FORM C-101) FOR SUCH PROPOSALS.)

1. Type of Well: X Oil Well Gas Well Other

2. Name of Operator
Hicks Oil & Gas, Inc.

3. Address of Operator
P.O. Box 3307, Farmington, NM 87499-3307

4. Well Location
Unit Letter G : 1710 feet from the North line and 1710 feet from the East line
Section 16 Township 22N Range 7W NMPM Sandoval County

11. Elevation (Show whether DR, RKB, RT, GR, etc.)
6891 ' GL ' KB

Pit or Below-grade Tank Application or Closure

Pit type _____ Depth to Groundwater _____ Distance from nearest fresh water well _____ Distance from nearest surface water _____

Pit Liner Thickness: _____ mil Below-Grade Tank: Volume _____ bbls; Construction Material _____

12. Check Appropriate Box to Indicate Nature of Notice, Report or Other Data

NOTICE OF INTENTION TO:		SUBSEQUENT REPORT OF:	
PERFORM REMEDIAL WORK <input type="checkbox"/>	PLUG AND ABANDON <input type="checkbox"/>	REMEDIAL WORK <input type="checkbox"/>	ALTERING CASING <input type="checkbox"/>
TEMPORARILY ABANDON <input type="checkbox"/>	CHANGE PLANS <input type="checkbox"/>	COMMENCE DRILLING OPNS. <input type="checkbox"/>	P AND A <input checked="" type="checkbox"/>
PULL OR ALTER CASING <input type="checkbox"/>	MULTIPLE COMPL <input type="checkbox"/>	CASING/CEMENT JOB <input type="checkbox"/>	
OTHER: <input type="checkbox"/>		OTHER: <input type="checkbox"/>	

13. Describe proposed or completed operations. (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work). SEE RULE 1103. For Multiple Completions: Attach wellbore diagram of proposed completion or recompletion.

Hicks Oil & Gas, Inc. plugged and abandoned this well per the attached report.

2-16-09

RCVD MAR 9 '09
OIL CONS. DIV.
DIST. 3

I hereby certify that the information above is true and complete to the best of my knowledge and belief. I further certify that any pit or below-grade tank has been/will be constructed or closed according to NMOCD guidelines , a general permit or an (attached) alternative OCD-approved plan .

SIGNATURE Jim Hicks TITLE Agent DATE 03/03/09

Type or print name Jim Hicks E-mail address: hoginc@qwest.net Telephone No. 505-327-4902
For State Use Only

APPROVED BY: Kelly G. Bolt TITLE Deputy Oil & Gas Inspector, District #3 DATE MAR 18 2009

Conditions of Approval (if any):

B

A-PLUS WELL SERVICE, INC.

P.O. BOX 1979

Farmington, New Mexico 87499

505-325-2627 * fax: 505-325-1211

Hicks Oil & Gas, Inc.

February 20, 2009

Dana State #1

Page 1 of 2

1710' FNL & 1710' FEL, Section 16, T-22-N, R-7-W

Sandoval County, NM

Lease Number: K04844

API #30-043-20165

Plug & Abandonment Report**Plugging Summary:**

Notified NMOCD on 2/9/09

- 2/09/09 Road rig and equipment to location. Chain up equipment. MOL and RU. Open up well, no pressure. LD polish rod with stuffing box. TOH and LD 203 - 3/4" rods and 2" topset pump. ND wellhead. PU on tubing; free. MU 8.625" companion flange. NU BOP and test. PU on tubing and LD donut. SI well. SDFD.
- 2/10/09 Open up well; no pressure. TOH and tally 160 joints 2.375" tubing, SN and saw tooth collar. Total tally, 4887'. Round trip 4.5" casing scraper to 4885'. TIH and set 4.5" DHS cement retainer at 4738'. Pressure test tubing to 1000 PSI. Sting out of CR. Load casing with 5.5 bbls of water. Circulate well clean with 75 bbls of water. Attempt to pressure test casing; leak 1 bpm at 750 PSI.
Plug #1 with CR at 4738', spot 16 sxs Class B cement (19 cf) inside casing from 4738' up to 4528' to isolate the Gallup interval. Note: excess cement due to casing leak. SI well and WOC overnight. SDFD.
- 2/11/09 Open up well; no pressure. TIH with tubing and tag plug #1 at 4550'. TOH with tubing. Perforate 3 squeeze holes at 2444'. TIH and set 4.5" DHS cement retainer at 2393'. Attempt to establish rate into squeeze holes; pressured up to 800 PSI and held. Sting out of CR. Attempt to pressure test casing; leak 1 bpm at 750 PSI; establish circulation out bradenhead valve. Kelly Roberts, NMOCD representative, approved procedure change to set inside plug only.
Plug #2 with CR at 2393', spot 12 sxs Class B cement (15 cf) inside casing from 2393' to 2235' to cover the Mesaverde top. PUH and WOC overnight. SI well. SDFD.
- 2/12/09 Open up well; no pressure. Load casing with 8.5 bbls of water. Shut in casing and pump 2 more bbls of water; establish circulation out bradenhead. SI bradenhead and establish rate 1 bpm at 750 PSI into casing leak. RIH with wireline and tag cement from plug #2 at 2246'. Perforate 3 squeeze holes 2030'. TIH with 4.5" DHS cement retainer and set at 1982'. Sting into CR. Establish rate under the CR at 1 bpm at 200 PSI.
Plug #3 with CR at 1982', mix and pump 52 sxs Class B cement (62 cf) with 2% CaCl₂, squeeze 28 sxs below CR and outside 4.5" casing and leave 24 sxs inside casing above the CR from 1982' up to 1880' to cover the Chacra top. Note: While pumping below CR, communication established out the casing valve. Reverse circulate after LD 4 joints tubing. Derrick Vigil, NMOCD, approved plug.

A-PLUS WELL SERVICE, INC.

P.O. BOX 1979
Farmington, New Mexico 87499
505-325-2627 * fax: 505-325-1211

Hicks Oil & Gas, Inc.
Dana State #1

February 20, 2009
Page 2 of 2

Plugging Summary Continued:

2/12/09 **Continued:** TOH and WOC. RIH with wireline and tag cement from plug #3 at 1652'. Perforate 3 squeeze holes at 1467'. TIH with 4.5" DHS cement retainer and set at 1417'. Establish rate 1 bpm at 500 PSI with 1/2 bpm returns out casing valve. Pressure test tubing to 1000 PSI, held OK.

Plug #4 and 5 combined, with CR at 1417', mix and pump 202 sxs Class B cement (239 cf), squeeze 170 sxs below CR and outside 4.5" casing and leave 32 sxs inside casing above the CR from 1467' up to 996' cover the Pictured Cliffs, Fruitland and Kirtland tops.

PUH and WOC overnight. SI well. SDFD.

2/16/09 Open up well; no pressure. Attempt to pressure test casing, leak 3/4 bpm at 700 PSI. RIH with wireline and tag cement from plug #4 at 861'. Note: Cement tagged high where the Ojo Alamo was to be spotted. Procedure change approved Derrick Vigil, NMOCD. Perforate 3 squeeze holes at 182'. TIH with 4.5" DHS cement retainer and set at 132'. Sting out of CR. Pressure test casing to 800 PSI. Sting into CR and establish rate 1 bpm at 250 PSI with good returns out BH.

Plug #6 with CR at 132', mix and pump 81 sxs Class B cement (96 cf), squeeze 65 sxs below CR and circulate cement to surface; SI bradenhead and pressured up to 1000 PSI; sting out of CR and pressure was 500 PSI; spot 16 sxs inside casing above CR from 132' to surface, circulate good returns out casing valve to pit. Note: Leave bradenhead SI. TOH and LD tubing.

SI well and WOC. ND BOP. Issue Hot Work Permit. Cut off wellhead. Found cement at surface. RD. Set P&A marker with 15 sxs cement. MOL.

Derrick Vigil, NMOCD representative, was on location.

Submit One Copy To Appropriate District Office
District I
1625 N. French Dr., Hobbs, NM 88240
District II
811 S. First St., Artesia, NM 88210
District III
1000 Rio Brazos Rd., Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico
Energy, Minerals and Natural Resources
OIL CONSERVATION DIVISION
1220 South St. Francis Dr.
Santa Fe, NM 87505

Form C-103
Revised November 3, 2011

WELL API NO. 30-045-20165 30-043-20165
5. Indicate Type of Lease STATE <input checked="" type="checkbox"/> FEE <input type="checkbox"/>
6. State Oil & Gas Lease No. K-04844 EXPIRED 4/30/2004
7. Lease Name or Unit Agreement Name DANA STATE
8. Well Number 1
9. OGRID Number 10413
10. Pool name or Wildcat RUSTY GALLUP

SUNDRY NOTICES AND REPORTS ON WELLS
(DO NOT USE THIS FORM FOR PROPOSALS TO DRILL OR TO DEEPEN OR PLUG BACK TO A DIFFERENT RESERVOIR. USE "APPLICATION FOR PERMIT" (FORM C-101) FOR SUCH PROPOSALS.)

1. Type of Well. Oil Well Gas Well Other

2. Name of Operator
HICKS OIL & GAS, INC.

3. Address of Operator
P.O. BOX 3307, FARMINGTON, NM 87499-3307

4. Well Location
Unit Letter G : 1710 feet from the NORTH line and 1710 feet from the EAST line
Section 16 Township 22N Range 7W NMPM County SANDOVAL

11. Elevation (Show whether DR, RKB, RT, GR, etc.)
6891' GR

RCVD MAY 8 '12
OIL CONS. DIV.

12. Check Appropriate Box to Indicate Nature of Notice, Report or Other Data

NOTICE OF INTENTION TO:	SUBSEQUENT REPORT OF:
PERFORM REMEDIAL WORK <input type="checkbox"/>	REMEDIAL WORK <input type="checkbox"/>
TEMPORARILY ABANDON <input type="checkbox"/>	ALTERING CASING <input type="checkbox"/>
PULL OR ALTER CASING <input type="checkbox"/>	COMMENCE DRILLING OPNS. <input type="checkbox"/>
	P AND A <input type="checkbox"/>
	CASING/CEMENT JOB <input type="checkbox"/>
OTHER: <input type="checkbox"/>	<input checked="" type="checkbox"/> Location is ready for OCD inspection after P&A

- All pits have been remediated in compliance with OCD rules and the terms of the Operator's pit permit and closure plan.
- Rat hole and cellar have been filled and leveled. Cathodic protection holes have been properly abandoned.
- A steel marker at least 4" in diameter and at least 4' above ground level has been set in concrete. It shows the

OPERATOR NAME, LEASE NAME, WELL NUMBER, API NUMBER, QUARTER/QUARTER LOCATION OR UNIT LETTER, SECTION, TOWNSHIP, AND RANGE. ALL INFORMATION HAS BEEN WELDED OR PERMANENTLY STAMPED ON THE MARKER'S SURFACE.

- The location has been leveled as nearly as possible to original ground contour and has been cleared of all junk, trash, flow lines and other production equipment.
- Anchors, dead men, tie downs and risers have been cut off at least two feet below ground level.
- If this is a one-well lease or last remaining well on lease, the battery and pit location(s) have been remediated in compliance with OCD rules and the terms of the Operator's pit permit and closure plan. All flow lines, production equipment and junk have been removed from lease and well location.
- All metal bolts and other materials have been removed. Portable bases have been removed. (Poured onsite concrete bases do not have to be removed.)
- All other environmental concerns have been addressed as per OCD rules.
- Pipelines and flow lines have been abandoned in accordance with 19.15.35.10 NMAC. All fluids have been removed from non-retrieved flow lines and pipelines.
- If this is a one-well lease or last remaining well on lease: all electrical service poles and lines have been removed from lease and well location, except for utility's distribution infrastructure.

When all work has been completed, return this form to the appropriate District office to schedule an inspection.

SIGNATURE [Signature] TITLE AGENT DATES 5/7/2012

TYPE OR PRINT NAME JIM HICKS 505-327-4902 E-MAIL: hoginc1001@qwestoffice.net

For State Use Only
APPROVED BY: [Signature] TITLE Deputy Oil & Gas Inspector,
Conditions of Approval (if any): AV District #3 DATE 9/17/12

ENCLOSURE : ADDITIONAL AOR WELL DETAILS



OCD Permitting

Home > Searches > Wells > Well Details

30-043-21295 N ESCAVADA UNIT #317H [321250]

General Well Information

Operator:	[372286] ENDURING RESOURCES, LLC	Direction:	Horizontal
Status:	Active	Multi-Lateral:	No
Well Type:	Oil	Mineral Owner:	Navajo
Work Type:	New	Surface Owner:	Navajo
Surface Location:	O-09-22N-07W 228 FSL 1547 FEL		
Lat/Long:	36.147444,-107.576574 NAD83		
GL Elevation:	6864	Sing/Mult Compl:	Single
KB Elevation:		Potash Waiver:	False
DF Elevation:			

Quick Links

- [General Well Information](#)
- [History](#)
- [Comments](#)
- [Operator](#) ↗
- [Pits](#)
- [Casing](#)
- [Well Completions](#)
- [Financial Assurance](#)
- [Compliance](#)
- [Reported Releases](#)
- [Orders](#)
- [Production](#)
- [Transporters](#)
- [Points of Disposition](#)

Proposed Formation and/or Notes

ESCAVADA N;MANCOS

Associated Images

- [Well Files \(27\)](#)
- Well Logs (0)
- [Well Admin Orders](#)

Depths

Proposed:	15046	True Vertical Depth:	4960
Measured Vertical Depth:	15115	Plugback Measured:	15065

New Searches

- [New Facility Search](#) ↗
- [New Incident Search](#) ↗
- [New Operator Search](#) ↗
- [New Pit Search](#) ↗
- [New Spill Search](#) ↗
- [New Tank Search](#) ↗
- [New Well Search](#) ↗

Formation Tops

Formation	Top	Producing	Method Obtained
Ojo Alamo Formation	762		
Kirtland Formation	965		
Pictured Cliffs Formation	1302		
Lewis Formation	1411		

Chacra Mesa Member	1715		
Cliff House Formation	2908		
Menefee Formation	2942		
Point Lookout Formation	3885		
Mancos Formation	4052		
Gallup Formation	4410		

Event Dates

Initial APD Approval: 08/17/2017
 Most Recent APD Approval: 04/19/2018
 APD Cancellation:
 APD Extension Approval:
 Spud: 09/25/2017
 Approved Temporary Abandonment:
 Shut In:
 Plug and Abandoned Intent Received:
 Well Plugged:
 Site Release:
 Last Inspection: 04/02/2020

Current APD Expiration: 08/17/2019
 Gas Capture Plan Received: 08/09/2017
 TA Expiration:
 PNR Expiration:
 Last MIT/BHT: 04/02/2020

History

Effective Date	Property	Well Number	Operator	C-101 Work Type	Well Type	Well Status	Apd Cancelled	Plug Date
04/19/2018	[321250] N ESCAVADA UNIT	#317H	[372286] ENDURING RESOURCES, LLC	New	Oil	Active		
08/17/2017	[316006] N ESCAVADA UNIT	#317H	[120782] WPX ENERGY PRODUCTION, LLC	New	Oil	New		

Comments

Pits

No Pits Found

Casing

			Boreholes, Strings and Equipment Specifications			Specifications for Strings and Tubing			Strings Cemented and Intervals			Cement and Plug Description		
String/Hole Type	Taper	Date Set	Diameter	Top	Bottom (Depth)	Grade	Length	Weight	Bot of Cem	Top of Cem	Meth	Class of Cement	Sacks	Pressure Test (Y/N)
Hole 1	1	09/25/2017	12.250	0	335		0	0.0	0	0			0	No
Surface Casing	1	09/25/2017	9.625	0	330	J-55	0	36.0	330	0	Circ		0	Yes
Hole 2	1	11/22/2017	8.750	335	5674		0	0.0	0	0			0	No
Intermediate 1 Casing	1	11/23/2017	7.000	0	5663	J-55	0	23.0	5663	0	Circ		0	Yes
Hole 3	1	12/01/2017	6.125	5674	15115		0	0.0	0	0			0	No
Liner 1	1	12/02/2017	4.500	4650	15113	P-110	0	11.6	15113	5511	Circ		0	No
Tubing 1	1	05/08/2019	2.875	0	4653	L-80	0	6.5	0	0			0	No

Well Completions

[98172] ESCAVADA N; MANCOS (OIL)

Status:	Active	Last Produced:	07/01/2022
Bottomhole Location:	J-05-22N-07W 1839 FSL 2284 FEL		
Lat/Long:	36.166432,-107.596702 NAD83		
Acreage:	440 08-22N-07W Units: A 09-22N-07W Units: D E F J K O P 05-22N-07W Units: J O P		
DHC:	No	Consolidation Code:	Unitization
		Production Method:	Flowing

Well Test Data

Production Test: 02/09/2019
 Flowing Tubing Pressure: 516 psi
 Choke Size: 0.340 inches
 Gas Volume: 2616.0 MCF
 Gas-Oil Ratio: 6813 Kcf / bbl
 Disposition of Gas: Sold

Test Length: 24 hours
 Flowing Casing Pressure: 412 psi
 Testing Method: Flowing
 Oil Volume: 384.0 bbls
 Oil Gravity: 0.0 Corr. API
 Water Volume: 1320.0 bbls

Perforations

Date	Top Measured Depth (Where Completion Enters Formation)	Bottom Measured Depth (End of Lateral)	Top Vertical Depth	Bottom Vertical Depth
10/18/2018	5745	14998	4893	4955

Notes

Event Dates

Initial Effective/Approval:	08/17/2017	TA Expiration:	
Most Recent Approval:	02/09/2019	Confidential Until:	05/09/2019
Confidential Requested On:	12/31/2018	Test Allowable End:	
Test Allowable Approval:	01/09/2019	DHC:	
TD Reached:	12/07/2017	Rig Released:	12/03/2017
Deviation Report Received:	No	Logs Received:	No
Directional Survey Run:	Yes	Closure Pit Plat Received:	
Directional Survey Received:	Yes	First Gas Production:	02/11/2019
First Oil Production:	02/09/2019	Completion Report Received:	02/08/2019
First Injection:		New Well C-104 Approval:	03/04/2019
Ready to Produce:	02/09/2019	Revoked Until:	
C-104 Approval:	01/09/2019		
Plug Back:			
Authorization Revoked Start:			

Well Completion History

Effective Date	Property	Well Number	Operator	Completion Status	TA Expiration Date
02/09/2019	[321250] N ESCAVADA UNIT	#317H	[372286] ENDURING RESOURCES, LLC	Active	
01/10/2019	[321250] N ESCAVADA UNIT	#317H	[372286] ENDURING RESOURCES, LLC	Active	
04/19/2018	[321250] N ESCAVADA UNIT	#317H	[372286] ENDURING RESOURCES, LLC	New, Not Drilled	
08/17/2017	[316006] N ESCAVADA UNIT	#317H	[120782] WPX ENERGY PRODUCTION, LLC	New, Not Drilled	

Financial Assurance

Effective	Bond Type	Base	Balance	Issuer	Cash/Surety	Cancellation Date
06/30/2017	Blanket	250000	250000	RLI INSURANCE COMPANY	Surety	

Requests to release bonds must be submitted in writing. You may send an e-mail to OCDAdminComp@state.nm.us or fax a letter to (505) 476-3462.

Compliance

Note that Financial Assurance and Inactive Well Compliance are documented in separate reports ([Inactive Well Report](#), [Financial Assurance Report](#)).

Also note that some compliance issues are addressed at the operator level so not listed under each well.

Reported Releases

The reported release volumes are sourced from C-141 submissions.

Earliest Reported Release in OCD Records: 02/20/2019 Last: 02/20/2019 [Show All Reported Releases](#)

	Release Volumes				Additional Details			
	BBLS	LBS	MCF	UNK	Type	Product	Severity	Status
<input type="checkbox"/> 2019 (1)	0	0	0	0				
Grand Total:	0	0	0	0				

Orders

3RF-35-0

Applicant: [\[372286\]](#) ENDURING RESOURCES, LLC
 Contact: Andrea Felix
 Reviewer: Cory Smith

Approved By:
 Issuing Office: Aztec

Processing Dates

Received: 10/17/2018 Ordered: 11/01/2018
 Approved: 11/01/2018 Denied:
 Expiration: Cancelled:

Production / Injection

The production & injection volumes are sourced from monthly production reports (C-115) submissions.

Earliest Production in OCD Records: 2/2019 Last 7/2022 [Show All Production](#) [Export to Excel](#)

Time Frame	Production				Injection				
	Oil (BBLs)	Gas (MCF)	Water (BBLs)	Days P/I	Water (BBLs)	Co2 (MCF)	Gas (MCF)	Other	Pressure
2019	56,297	745,999	74,342	333	0	0	0	0	N/A
2020	14,435	296,964	15,251	327	0	0	0	0	N/A
2021	10,773	232,661	4,598	365	0	0	0	0	N/A
2022	4,758	112,066	177	212	0	0	0	0	N/A
Grand Total:	86,263	1,387,690	94,368	1,237	0	0	0	0	N/A

Transporters

Transporter	Product	Most Recent for Property
[25244] WILLAMS FOUR CORNERS, LLC	Gas	7/2022
[248440] WESTERN REFINING COMPANY, L.P.	Oil	7/2022

Points of Disposition

ID	Type	Description	Pool(s)
4033786	Gas	N ESCAVADA UNIT #317H	[98172] ESCAVADA N; MANCOS (OIL)
4033785	Oil	N ESCAVADA UNIT #317H	[98172] ESCAVADA N; MANCOS (OIL)





OCD Permitting

Home > Searches > Wells > Well Details

30-043-21301 N ESCAVADA UNIT #318H [321250]

General Well Information

Operator:	[372286] ENDURING RESOURCES, LLC	Direction:	Horizontal
Status:	Active	Multi-Lateral:	No
Well Type:	Oil	Mineral Owner:	Navajo
Work Type:	New	Surface Owner:	Navajo
Surface Location:	O-09-22N-07W 268 FSL 1548 FEL	Sing/Mult Compl:	Single
Lat/Long:	36.147554,-107.576575 NAD83	Potash Waiver:	False
GL Elevation:	6864		
KB Elevation:			
DF Elevation:			

Quick Links

- [General Well Information](#)
- [History](#)
- [Comments](#)
- [Operator](#) ↗
- [Pits](#)
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- [Well Completions](#)
- [Financial Assurance](#)
- [Compliance](#)
- [Orders](#)
- [Production](#)
- [Transporters](#)
- [Points of Disposition](#)

Proposed Formation and/or Notes

ESCAVADA N;MANCOS

Associated Images

- [Well Files \(23\)](#)
- Well Logs (0)
- [Well Admin Orders](#)

Depths

Proposed:	12851	True Vertical Depth:	4944
Measured Vertical Depth:	12922	Plugback Measured:	12873

New Searches

- [New Facility Search](#) ↗
- [New Incident Search](#) ↗
- [New Operator Search](#) ↗
- [New Pit Search](#) ↗
- [New Spill Search](#) ↗
- [New Tank Search](#) ↗
- [New Well Search](#) ↗

Formation Tops

Formation	Top	Producing	Method Obtained
Ojo Alamo Formation	764		
Kirtland Formation	967		
Pictured Cliffs Formation	1295		
Lewis Formation	1397		

Chacra Mesa Member	1685		
Cliff House Formation	2791		
Menefee Formation	2816		
Point Lookout Formation	3691		
Mancos Formation	3849		
Gallup Formation	4187		

Event Dates

Initial APD Approval:	08/10/2017	Current APD Expiration:	08/10/2019
Most Recent APD Approval:	04/19/2018	Gas Capture Plan Received:	08/04/2017
APD Cancellation:		TA Expiration:	
APD Extension Approval:		PNR Expiration:	
Spud:	09/26/2017	Last MIT/BHT:	04/02/2020
Approved Temporary Abandonment:			
Shut In:			
Plug and Abandoned Intent Received:			
Well Plugged:			
Site Release:			
Last Inspection:	04/02/2020		

History

Effective Date	Property	Well Number	Operator	C-101 Work Type	Well Type	Well Status	Apd Cancelled	Plug Date
04/19/2018	[321250] N ESCAVADA UNIT	#318H	[372286] ENDURING RESOURCES, LLC	New	Oil	Active		
08/10/2017	[316006] N ESCAVADA UNIT	#318H	[120782] WPX ENERGY PRODUCTION, LLC	New	Oil	New		

Comments

Pits

No Pits Found

Casing

			Boreholes, Strings and Equipment Specifications			Specifications for Strings and Tubing			Strings Cemented and Intervals			Cement and Plug Description		
String/Hole Type	Taper	Date Set	Diameter	Top	Bottom (Depth)	Grade	Length	Weight	Bot of Cem	Top of Cem	Meth	Class of Cement	Sacks	Pressure Test (Y/N)
Hole 1	1	09/26/2017	12.250	0	339		0	0.0	0	0			0	No
Surface Casing	1	09/26/2017	9.625	0	334	J-55	0	36.0	334	0	Circ		0	Yes
Hole 2	1	11/24/2017	8.750	339	5444		0	0.0	0	0			0	No
Intermediate 1 Casing	1	11/25/2017	7.000	0	5434	J-55	0	23.0	5434	0	Circ		0	Yes
Hole 3	1	11/28/2017	6.125	5444	12922		0	0.0	0	0			0	No
Liner 1	1	11/28/2017	4.500	5274	12921	P-110	0	11.6	12921	5274	Circ		0	No
Tubing 1	1	05/10/2019	2.875	0	4961	L-80	0	6.5	0	0			0	No
Packer	1	05/10/2019	0.000	0	4950		0	0.0	0	0			0	No

Well Completions

[98172] ESCAVADA N; MANCOS (OIL)

Status:	Active	Last Produced:	07/01/2022
Bottomhole Location:	O-05-22N-07W 346 FSL 2279 FEL		
Lat/Long:	36.162333,-107.596783 NAD83		
Acreage:	360 08-22N-07W Units: A B H 09-22N-07W Units: E K L N O 05-22N-07W Units: O		
DHC:	No	Consolidation Code:	Unitization
		Production Method:	Flowing

Well Test Data

Production Test:	02/10/2019	Test Length:	24 hours
Flowing Tubing Pressure:	388 psi	Flowing Casing Pressure:	450 psi
Choke Size:	0.480 inches	Testing Method:	Flowing
Gas Volume:	2040.0 MCF	Oil Volume:	600.0 bbls
Gas-Oil Ratio:	3400 Kcf / bbl	Oil Gravity:	0.0 Corr. API
Disposition of Gas:	Sold	Water Volume:	1200.0 bbls

Perforations

Date	Top Measured Depth (Where Completion Enters Formation)	Bottom Measured Depth (End of Lateral)	Top Vertical Depth	Bottom Vertical Depth
10/13/2018	5555	12849	4881	4943

Notes

Event Dates

Initial Effective/Approval:	08/10/2017	TA Expiration:	
Most Recent Approval:	02/10/2019	Confidential Until:	05/10/2019
Confidential Requested On:	12/31/2018	Test Allowable End:	
Test Allowable Approval:	01/09/2019	DHC:	
TD Reached:	11/28/2017	Rig Released:	11/29/2017
Deviation Report Received:	No	Logs Received:	No
Directional Survey Run:	Yes	Closure Pit Plat Received:	
Directional Survey Received:	Yes	First Gas Production:	02/11/2019
First Oil Production:	02/10/2019	Completion Report Received:	02/08/2019
First Injection:		New Well C-104 Approval:	02/11/2019
Ready to Produce:	02/10/2019	Revoked Until:	
C-104 Approval:	01/09/2019		
Plug Back:			
Authorization Revoked Start:			

Well Completion History

Effective Date	Property	Well Number	Operator	Completion Status	TA Expiration Date
02/10/2019	[321250] N ESCAVADA UNIT	#318H	[372286] ENDURING RESOURCES, LLC	Active	
01/10/2019	[321250] N ESCAVADA UNIT	#318H	[372286] ENDURING RESOURCES, LLC	Active	
04/19/2018	[321250] N ESCAVADA UNIT	#318H	[372286] ENDURING RESOURCES, LLC	New, Not Drilled	
08/10/2017	[316006] N ESCAVADA UNIT	#318H	[120782] WPX ENERGY PRODUCTION, LLC	New, Not Drilled	

Financial Assurance

Effective	Bond Type	Base	Balance	Issuer	Cash/Surety	Cancellation Date
06/30/2017	Blanket	250000	250000	RLI INSURANCE COMPANY	Surety	

Requests to release bonds must be submitted in writing. You may send an e-mail to OCDAdminComp@state.nm.us or fax a letter to (505) 476-3462.

Compliance

Note that Financial Assurance and Inactive Well Compliance are documented in separate reports ([Inactive Well Report](#), [Financial Assurance Report](#)).

Also note that some compliance issues are addressed at the operator level so not listed under each well.

Orders

3RF-35-0

Applicant:	[372286] ENDURING RESOURCES, LLC	Approved By:	
Contact:	Andrea Felix	Issuing Office:	Aztec
Reviewer:	Cory Smith		

Processing Dates

Received:	10/17/2018	Ordered:	11/01/2018
Approved:	11/01/2018	Denied:	
Expiration:		Cancelled:	

Production / Injection

The production & injection volumes are sourced from monthly production reports (C-115) submissions.

Earliest Production in OCD Records: 2/2019 Last 7/2022 [Show All Production](#) [Export to Excel](#)

Time Frame	Production				Injection				
	Oil (BBLs)	Gas (MCF)	Water (BBLs)	Days P/I	Water (BBLs)	Co2 (MCF)	Gas (MCF)	Other	Pressure
2019	100,666	736,739	89,214	329	0	0	0	0	N/A
2020	50,124	427,568	23,749	327	0	0	0	0	N/A

2021	26,252	217,082	10,573	365	0	0	0	0	N/A
2022	12,403	59,894	4,521	212	0	0	0	0	N/A
Grand Total:	189,445	1,441,283	128,057	1,233	0	0	0	0	N/A

Transporters

Transporter	Product	Most Recent for Property
[25244] WILLAMS FOUR CORNERS, LLC	Gas	7/2022
[248440] WESTERN REFINING COMPANY, L.P.	Oil	7/2022

Points of Disposition

ID	Type	Description	Pool(s)
4033790	Gas	N ESCAVADA UNIT #318H	[98172] ESCAVADA N; MANCOS (OIL)
4033789	Oil	N ESCAVADA UNIT #318H	[98172] ESCAVADA N; MANCOS (OIL)



ENCLOSURE G: PROOF OF NOTICE

Ms. Khem Sumwan, Regulatory Manager at Enduring Resources, LLC, 200 Energy Court, Farmington, New Mexico 87401 (303-350-5721), wishes to provide notification for the submittal of an Application for Authorization to Inject to the New Mexico Oil Conservation Division (NMOCOD). The application requests the use of existing water supply well N Escavada Unit 2207-16B, permitted with the New Mexico Office of the State Engineer, for the use as a Class II injection well. The well is located in Sandoval County, New Mexico at latitude 36.14407256°N longitude -107.5762770°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 Formation at depths between 6,925 feet and 7,114 feet below ground surface. Maximum injection rates and pressures are anticipated to be 20,000 barrels of water per day and 1,385 pounds per square inch, respectively. Interested parties may contact the Oil Conservation Division, 1220 South Saint Francis Drive, Santa Fe, New Mexico 87505, within 15 days.
Observer: October 27, 2022

AFFIDAVIT OF PUBLICATION

STATE OF NEW MEXICO

County of Sandoval SS

David Montoya, the undersigned, authorized Representative of Rio Rancho Observer, on oath states that this newspaper is duly qualified to publish legal notices or advertisements within the meaning of Section 3, Chapter 167, Session Laws of 1937; that payment therefore has been made of assessed as court cost; and that the notice, copy of which is hereto attached, was published in said paper in the regular edition, for 1 time(s) on the following date(s):

10/27/2022

David Montoya

Sworn and subscribed before me, a Notary Public, in and for the County of Sandoval and State of New Mexico this
27 day of October of 2022

PRICE \$51.72

Statement to come at the end of month.

ACCOUNT NUMBER 1105916

CHRISTINA MARIE WHITE
Notary Public - State of New Mexico
Commission # 1122050
My Comm. Expires Jul 26, 2026

Christina Marie White

- Complete items 1, 2, and 3.
- Print your name and address on the reverse so that we can return the card to you.
- Attach this card to the back of the mailpiece, or on the front if space permits.

1. Article Addressed to:
 Nm State Land Office
 PO Box 1148
 Santa Fe, NM 87504



9590 9402 6590 1028 9636 65

2. Article Number (Transfer from service label)

7020 2450 0001 1930 9986

PS Form 3811, July 2020 PSN 7530-02-000-9053

COMPLETE THIS SECTION ON DELIVERY

A. Signature
 Agent
 Addressee

B. Received by (Printed Name) C. Date of Delivery

D. Is delivery address different from item 1? Yes
 If YES, enter delivery address below: No

3. Service Type
 Adult Signature Priority Mail Express®
 Adult Signature Restricted Delivery Registered Mail™
 Certified Mail® Registered Mail Restricted Delivery
 Certified Mail Restricted Delivery Signature Confirmation™
 Collect on Delivery Signature Confirmation Restricted Delivery
 Collect on Delivery Restricted Delivery Insured Mail

U.S. Postal Service™
CERTIFIED MAIL® RECEIPT
 Domestic Mail Only

Page 50 of 139

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OFFICIAL USE

Certified Mail Fee \$
 Extra Services & Fees (check box, add fee as appropriate)
 Return Receipt (hardcopy) \$ _____
 Return Receipt (electronic) \$ _____
 Certified Mail Restricted Delivery \$ _____
 Adult Signature Required \$ _____
 Adult Signature Restricted Delivery \$ _____

Postage \$
 Total Postage and Fees \$

Sent To Hicks Oil & Gas, Inc.
PO Box 3307
Farmington, NM 87499-3307

PS Form 3800, April 2015 PSN 7530-02-000-9047 See Reverse for Instructions



7020 2450 0001 1930 9993
7020 2450 0001 1930 9993



U.S. Postal Service™
CERTIFIED MAIL® RECEIPT
 Domestic Mail Only

For delivery information, visit our website at www.usps.com®.

OFFICIAL USE

Certified Mail Fee \$
 Extra Services & Fees (check box, add fee as appropriate)
 Return Receipt (hardcopy) \$ _____
 Return Receipt (electronic) \$ _____
 Certified Mail Restricted Delivery \$ _____
 Adult Signature Required \$ _____
 Adult Signature Restricted Delivery \$ _____

Postage \$
 Total Postage and Fees \$

Sent To NMSLO
PO Box 1148
Santa Fe, NM 87504

PS Form 3800, April 2015 PSN 7530-02-000-9047 See Reverse for Instructions

Hicks

SENDER: COMPLETE THIS SECTION

- Complete items 1, 2, and 3.
- Print your name and address on the reverse so that we can return the card to you.
- Attach this card to the back of the mailpiece, or on the front if space permits.

1. Article Addressed to:
Hicks Oil & Gas, Inc.
PO Box 3307
Farmington, NM 87499-3307

2. Article Number (Transfer from service label)
 7020 2450 0001 1930 9993

PS Form 3811, July 2015 PSN 7530-02-000-9053

COMPLETE THIS SECTION ON DELIVERY

A. Signature
 Agent
 Addressee

B. Received by (Printed Name) C. Date of Delivery

D. Is delivery address different from item 1? Yes
 If YES, enter delivery address below: No

3. Service Type
 Adult Signature Priority Mail Express®
 Adult Signature Restricted Delivery Registered Mail™
 Certified Mail® Registered Mail Restricted Delivery
 Certified Mail Restricted Delivery Return Receipt for Merchandise
 Collect on Delivery Signature Confirmation™
 Collect on Delivery Restricted Delivery Signature Confirmation Restricted Delivery
 Insured Mail



ENDURING RESOURCES, LLC

6300 S Syracuse Way, Suite 525 Centennial, CO 80111
Farmington Field Office: 505.636.9720 | Main Office: 303.573.1222

October 28, 2022

Via Certified Mail (Article 7020 2450 0001 1930 9993)

Hicks Oil & Gas, Inc.

PO Box 3307
Farmington, NM 87499-3307

Re: North Escavada Unit 2207-16B WSW
NMOSE Permit No. SJ-4301 POD 1
Sandoval County, NM

To Whom it May Concern:

Enduring Resources, LLC (Enduring) is applying (C-108 Application enclosed) to convert its North Escavada U 2207-16B WSW well into a Salt Water Disposal Well. The subject well was initially drilled in 2018 by Enduring to target the Entrada Formation as a water supply well for oil and gas development.

Pursuant to Section 19.15.26 of the New Mexico Administrative Code, this letter serves as formal notice of the SWD conversion. No action is needed unless you have any questions or objections.

- Well Name: North Escavada Unit 2207-16B WSW
- NMOSE Permit: SJ-4301 POD 1
- Location: B-16, T22N-R07W
- Injection Interval: 6,925' to 7,114'
- Proposed Disposal Zone: Entrada Pool (Pool Code: 964360)
- Applicant Name: Enduring Resources, LLC
- Applicant Address: 6300 S Syracuse Way, Suite 525, Centennial, CO 80111

If you have any questions or concerns, please contact the undersigned using the information provided below.

Sincerely,

Khem Suthiwan
Regulatory Manager
Enduring Resources, LLC
303.350.5721 – Office
720.662.5218 – Cell



ENDURING RESOURCES, LLC

6300 S Syracuse Way, Suite 525 Centennial, CO 80111
Farmington Field Office: 505.636.9720 | Main Office: 303.573.1222

October 28, 2022

Via Certified Mail (Article 7020 2450 0001 1930 9986)

NM State Land Office

PO Box 1148
Santa Fe, NM 87504

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NMOSE Permit No. SJ-4301 POD 1
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Sincerely,

Khem Suthiwan
Regulatory Manager
Enduring Resources, LLC
303.350.5721 – Office
720.662.5218 – Cell

ENCLOSURE H: INJECTION FLUID ANALYSIS

Creedence Energy Services Analytical Services 5930 16th Ave W Williston, ND 58801		<h2 style="margin: 0;">Complete Water Analysis</h2>	
Company:	Enduring	Sample ID:	202211939
Well Name:	NE 16 Pond	Analysis Date:	5/23/2022
Field:		Sample Date:	5/16/2022
State:	NM	Analyst:	Melyssa Ostler
Well Type:		Report Date:	5/24/2022
Sample Point:	Pond		
Field Data	Anions	mg/L	Cations
pH:	7.73	Chlorides (Cl-):	21088
	mg/L	Sulfates (SO42-):	305.7
Bicarbonate (HCO3-):	1256.42	Boron (B):	7.795
aqueous CO2:	0	Phosphorous (P):	0
aqueous H2S:	0		
Specific Gravity	g/mL	Analysis Values	
Measured:		Calculated TDS:	36376
Calculated:	1.024713	Cation/Anion Ratio:	0.055
Conductivity	units		
		Sodium (Na+):	13010
		Magnesium (Mg+):	59.37
		Potassium (K+):	232.9
		Calcium (Ca2+):	216.1
		Strontrium (Sr2+):	39.37
		Barium (Ba2+):	4.933
		Iron (Fe2+):	2.985
		Zinc (Zn2+):	0.197
		Manganese (Mn2+):	1.379
		Lead (Pb):	0
		Copper (Cu2+):	0.256
		Silica (Si):	116.2

ENCLOSURE I: ENTRADA ANALYSIS

Analytical Report

Lab Order **1810596**

Date Reported:

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	Page 2 of 0
	ND Not Detected at the Reporting Limit	P Sample pH Not In Range	
	PQL Practical Quantitative 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	

Company: Enduring Resources, LLC

Well: North Escavada Unit 2207-16B-WSW

Field: Sandoval

County: Sandoval State: New Mexico

Platform Express

Triple Combo

County: Sandoval
 Field: Sandoval
 Location: T21N R5W Sec. 3
 Well: North Escavada Unit 2207-16B-WSW
 Company: Enduring Resources, LLC

Location:		T21N R5W Sec. 3		Elev.: K.B. 6920.00 ft	
Permanent Datum:		Lat: 36.08386621 Long: -107.34345973		G.L. 6902.00 ft	
Log Measured From:		Kelly Bushing		D.F. 6919.00 ft	
Drilling Measured From:		Kelly Bushing		above Perm. Datum	
API Serial No.	Section:	Township:	Range:		
30-043-00000	3	21N	5W		

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					
Type Fluid In Hole	WBM					
Density	8.6 lbm/gal	Viscosity	26 s			
G Fluid Loss	30 cm3	PH	11			
Source of Sample	Active Tank					
@ Meas Temp	0.18 ohm.m	@	68 degF			
@ Meas Temp	0.14 ohm.m	@	68 degF			
@ Meas Temp	0.28 ohm.m	@	68 degF			
Service RMC	RMC					
@ 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			
Number	9102	Location:	Fort Morgan			
Provided By	Stephen Tang					
Witnessed By	Tim Dingman					

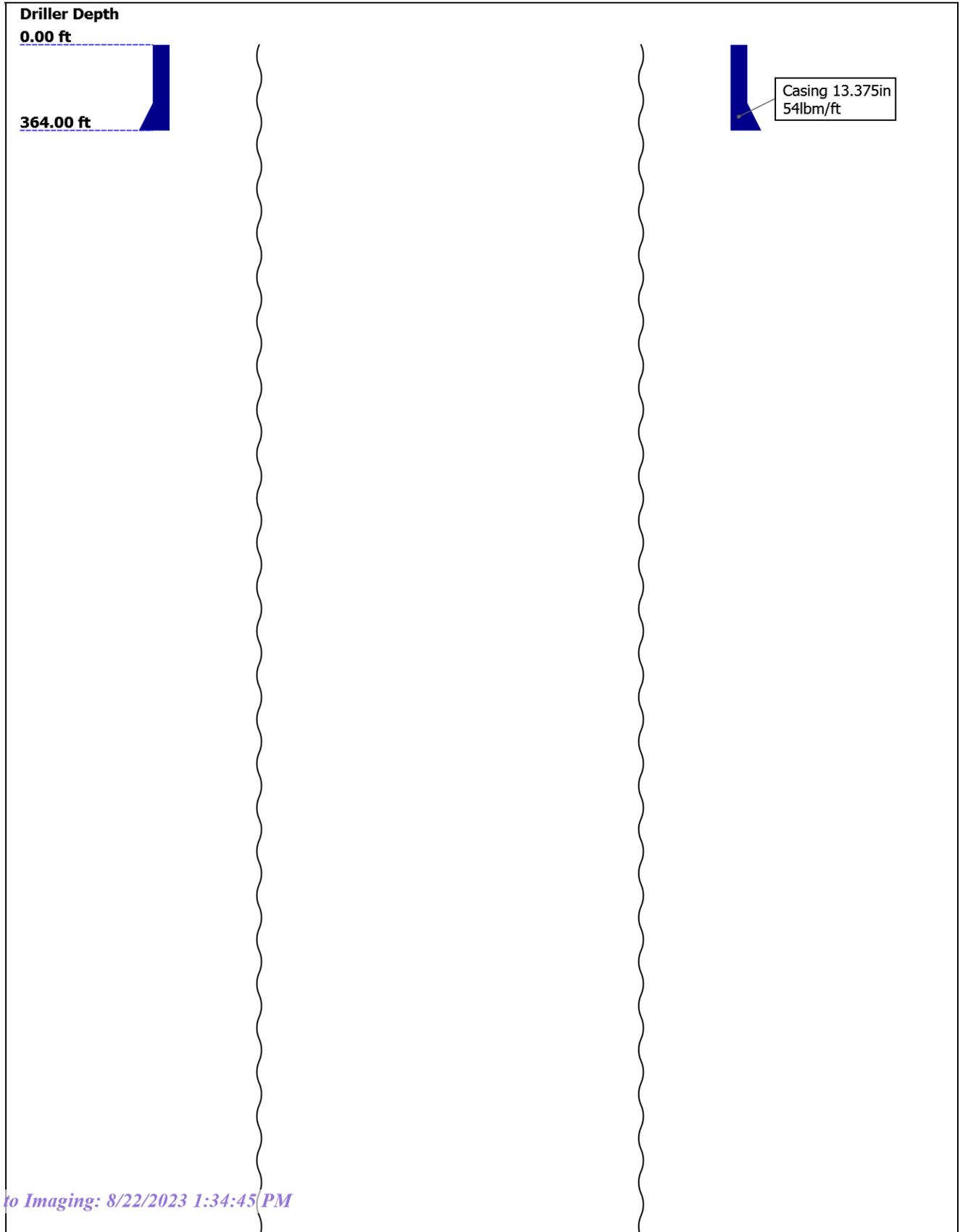
Disclaimer

THE USE OF AND RELIANCE UPON THIS RECORDED-DATA BY THE HEREIN NAMED COMPANY (AND ANY OF ITS AFFILIATES, PARTNERS, REPRESENTATIVES, AGENTS, CONSULTANTS AND EMPLOYEES) IS SUBJECT TO THE TERMS AND CONDITIONS AGREED UPON BETWEEN SCHLUMBERGER AND THE COMPANY, INCLUDING: (a) RESTRICTIONS ON USE OF THE RECORDED-DATA; (b) DISCLAIMERS AND WAIVERS OF WARRANTIES AND REPRESENTATIONS REGARDING COMPANY'S USE AND RELIANCE UPON THE RECORDED-DATA; AND (c) CUSTOMER'S FULL AND SOLE RESPONSIBILITY FOR ANY INFERENCE DRAWN OR DECISION MADE IN CONNECTION WITH THE USE OF THIS RECORDED-DATA.

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9. One 5" Triple Combo
 - 9.1 Composite Summary
 - 9.2 Log (TripleCombo-5 RA)
10. Calibration Report
11. Tail

Well Sketch



Open Hole 8.5in

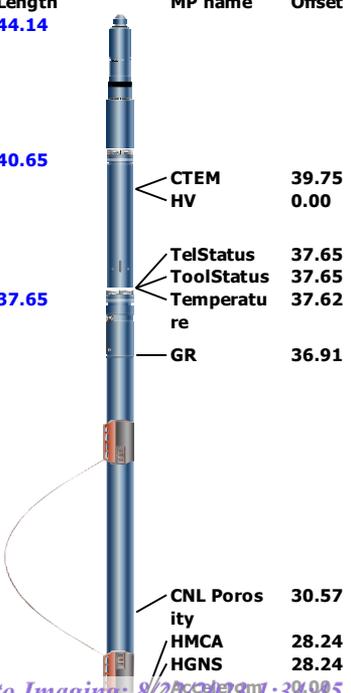
7400.00 ft

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 LEH-QT LEH-QT	Length 44.14	MP name	Offset	Toolstring ran as per toolsketch.
DTC-H ECH-KC DTC-H	40.65	CTEM HV	39.75 0.00	Logs processed on a sandstone matrix 2.68 g/cc
HGNS-H HGNH NSR-F:5203 NPV-N HAC CZ-H:426 4 HMCA-H HGNS-H	37.65	TelStatus ToolStatus Temperature GR	37.65 37.65 37.62 36.91	
HDPS-H	28.24	CNL Porosity HMCA HGNS meter	30.57 28.24 28.24 30.00	



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



AIT-M:129 16.00
AMIS:129
AMRM:129

Power Sup
ply 7.91
Induction 7.91
Temperatu
re 7.91

SP 0.08
Mud Resist
ivity 0.00
Head Tens
ion
TOOLS_ZERO

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

Depth Summary

	One		
--	-----	--	--

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		
------	----------	--	--

Serial Number	Received by: <i>OCD: 8/22/2023 1:32:13 PM</i>	
Calibration Date		
Calibrator Serial Number		
Number of Calibration Points	0	

Logging Cable	
Type	7-46NT-XS
Serial Number	
Length	24000.00 ft
Conveyance Type	Wireline
Rig Type	Aztec

One:Depth Control Parameters	Depth Control Remarks
Log Sequence	First Log In the Well
Rig Up Length At Surface	All Schlumberger depth procedures followed.
Rig Up Length At Bottom	IDW used as primary depth device.
Rig Up Length Correction	Z-Chart used as secondary depth device.
Stretch Correction	
Tool Zero Check At Surface	

One

5" Triple Combo

Pass Summary

Run Name	Pass Objective	Direction	Top	Bottom	Start	Stop	DSC Mode	Depth Shift	Include Parallel Data
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

All depths are referenced to toolstring zero

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

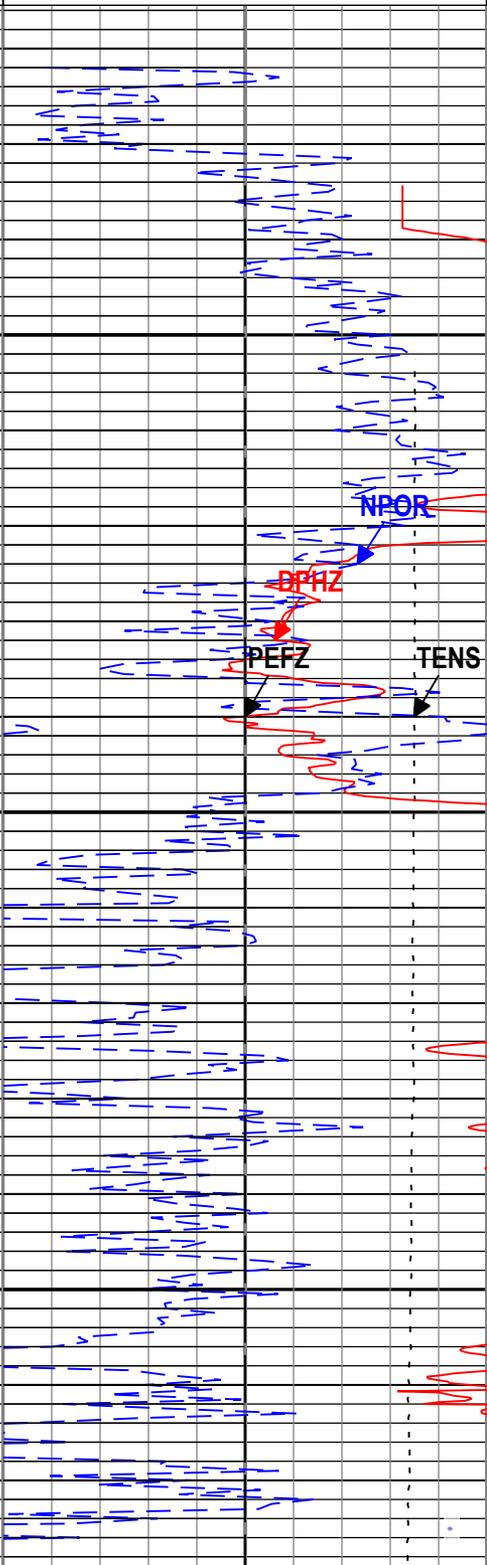
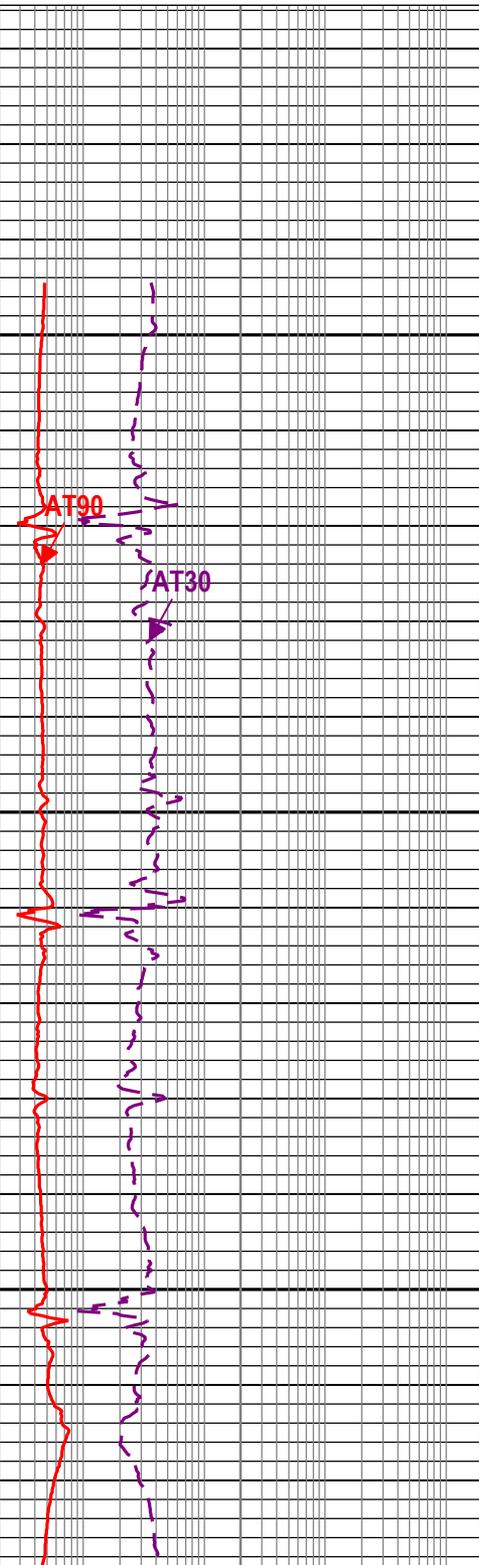
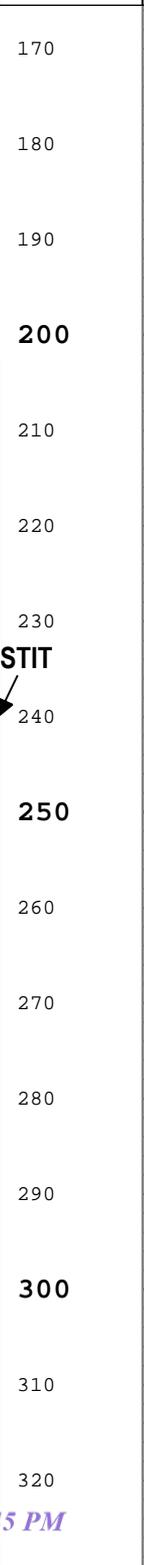
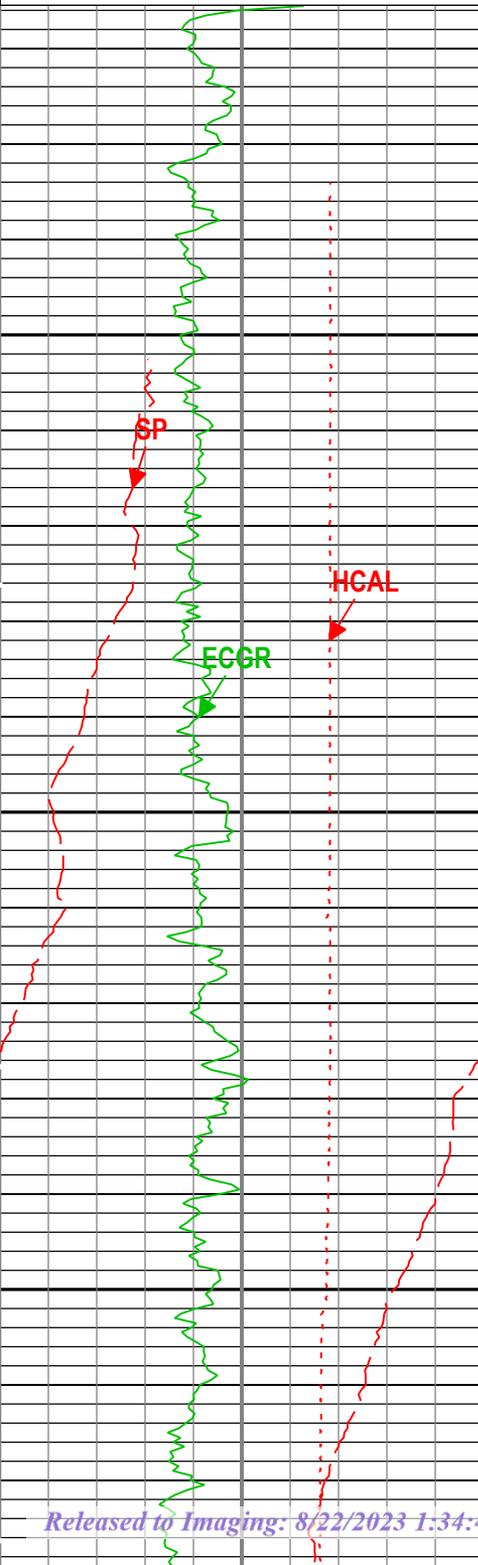
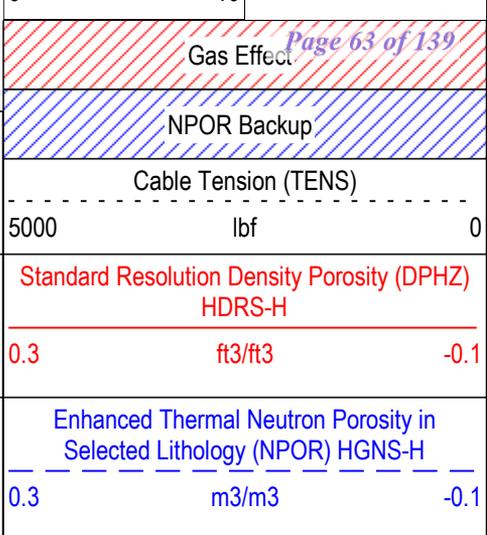
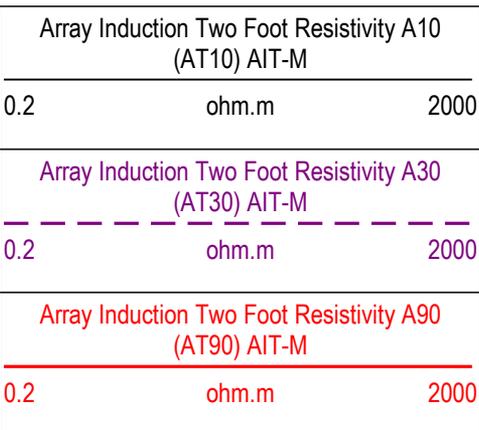
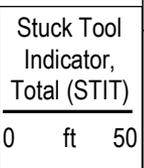
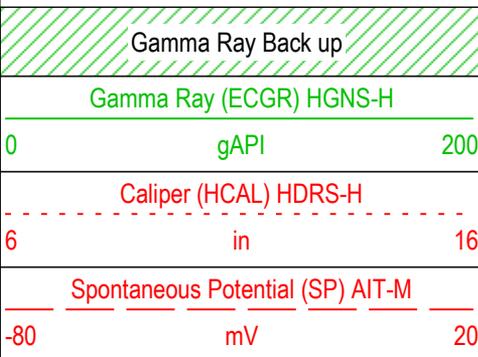
Description: HGNS standard resolution porosities for Platform Express Format: Log (TripleCombo-5) Index Scale: 5 in per 100 ft Index Unit: ft Index Type: Measured Depth Creation Date: 02-Oct-2018 17:50:55

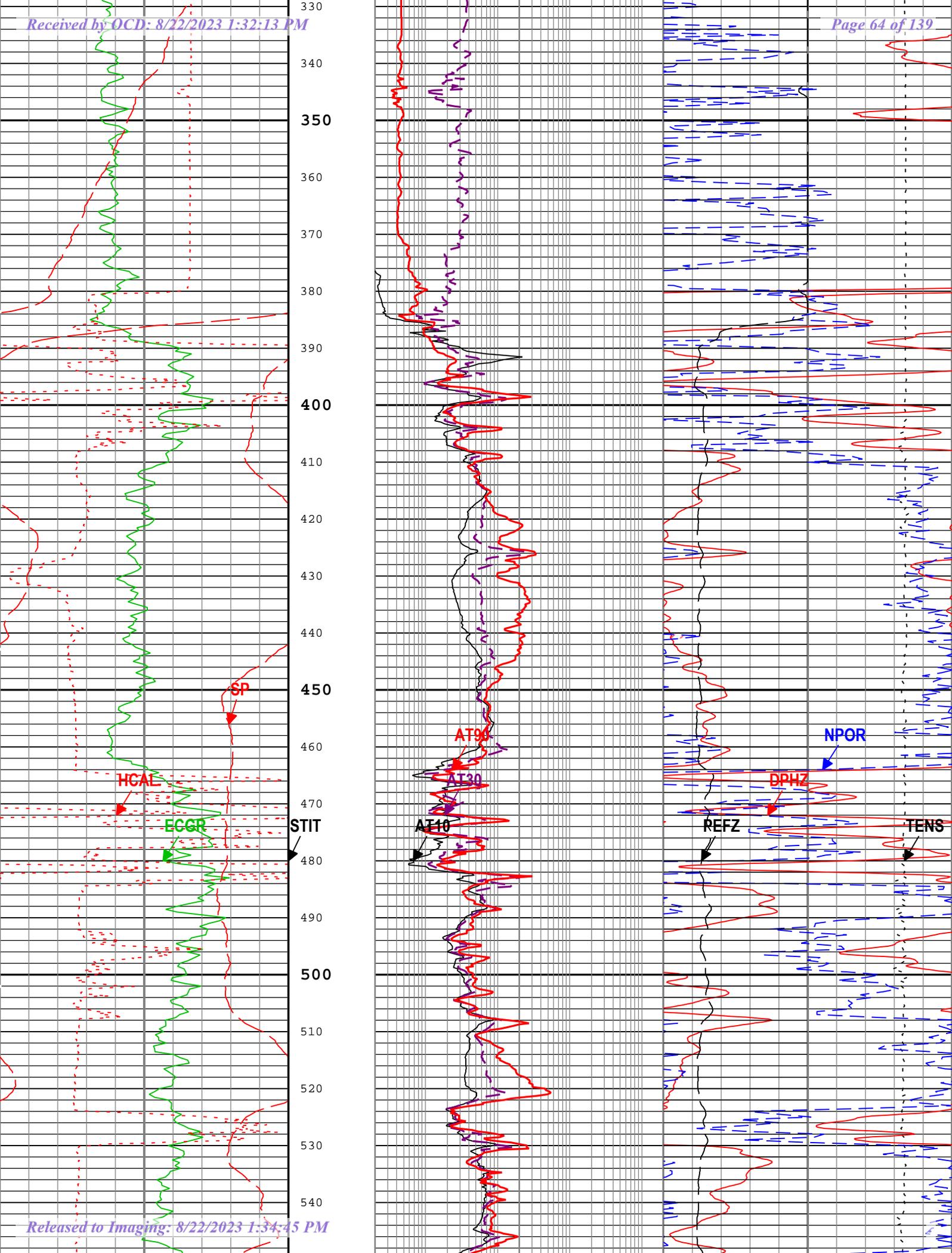
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AT10	AIT-M:AMIS:AMIS	3in
AT30	AIT-M:AMIS:AMIS	3in
AT90	AIT-M:AMIS:AMIS	3in
CALI	HDRS-H:HRCC-H:HRCC-H	1in
DPHZ	HDRS-H:HRMS-H:HRGD-H	2in
GR	HGNS-H:HGNS-H:HGNS-H	6in
NPOR	HGNS-H:HGNS-H:HGNS-H	6in
PEFZ	HDRS-H:HRMS-H:HRGD-H	2in
SP	AIT-M:AMIS:AMIS	6in
STIT	DepthCorrection	6in
TENS	WLWorkflow	6in
TIME_1900	WLWorkflow	0.1in

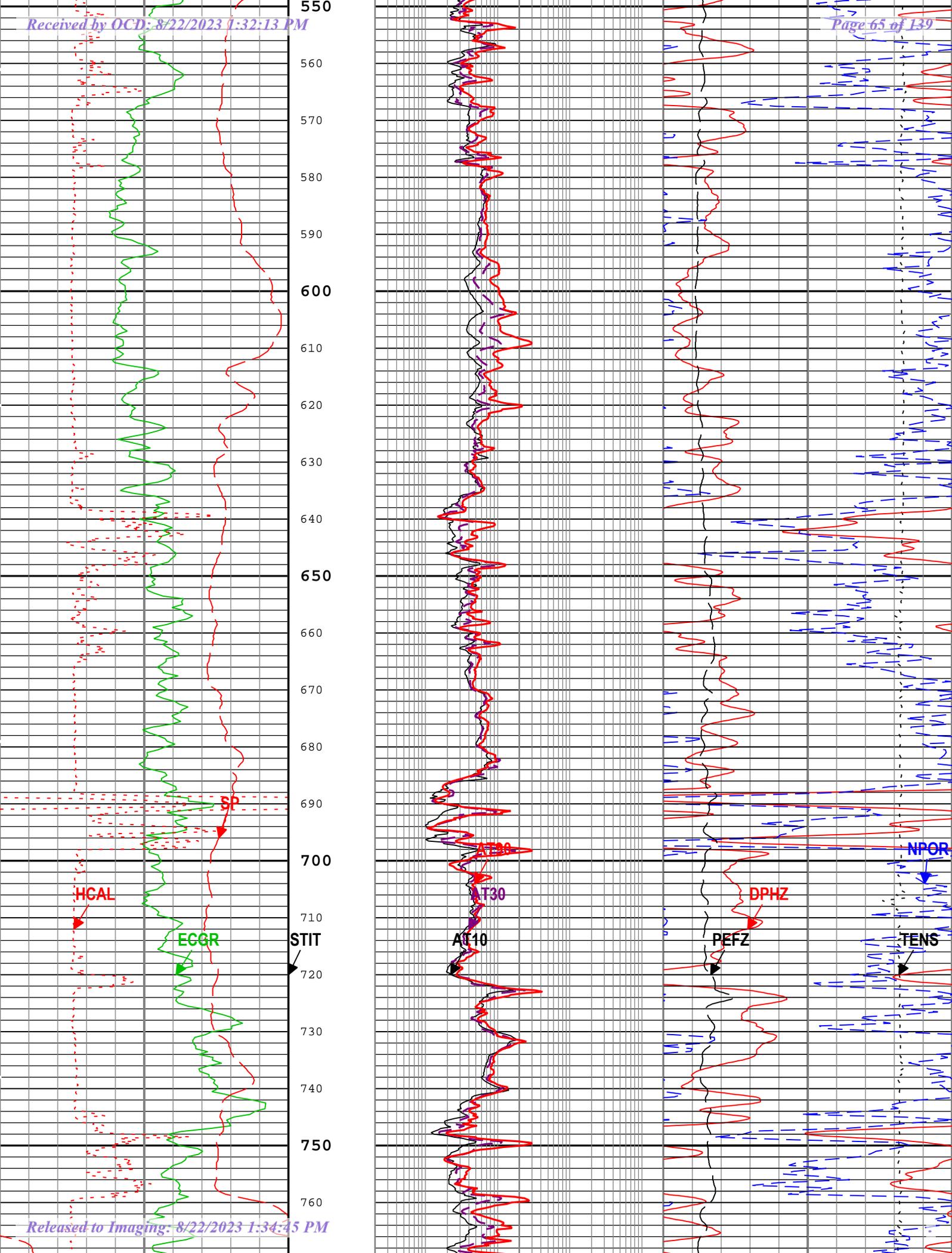
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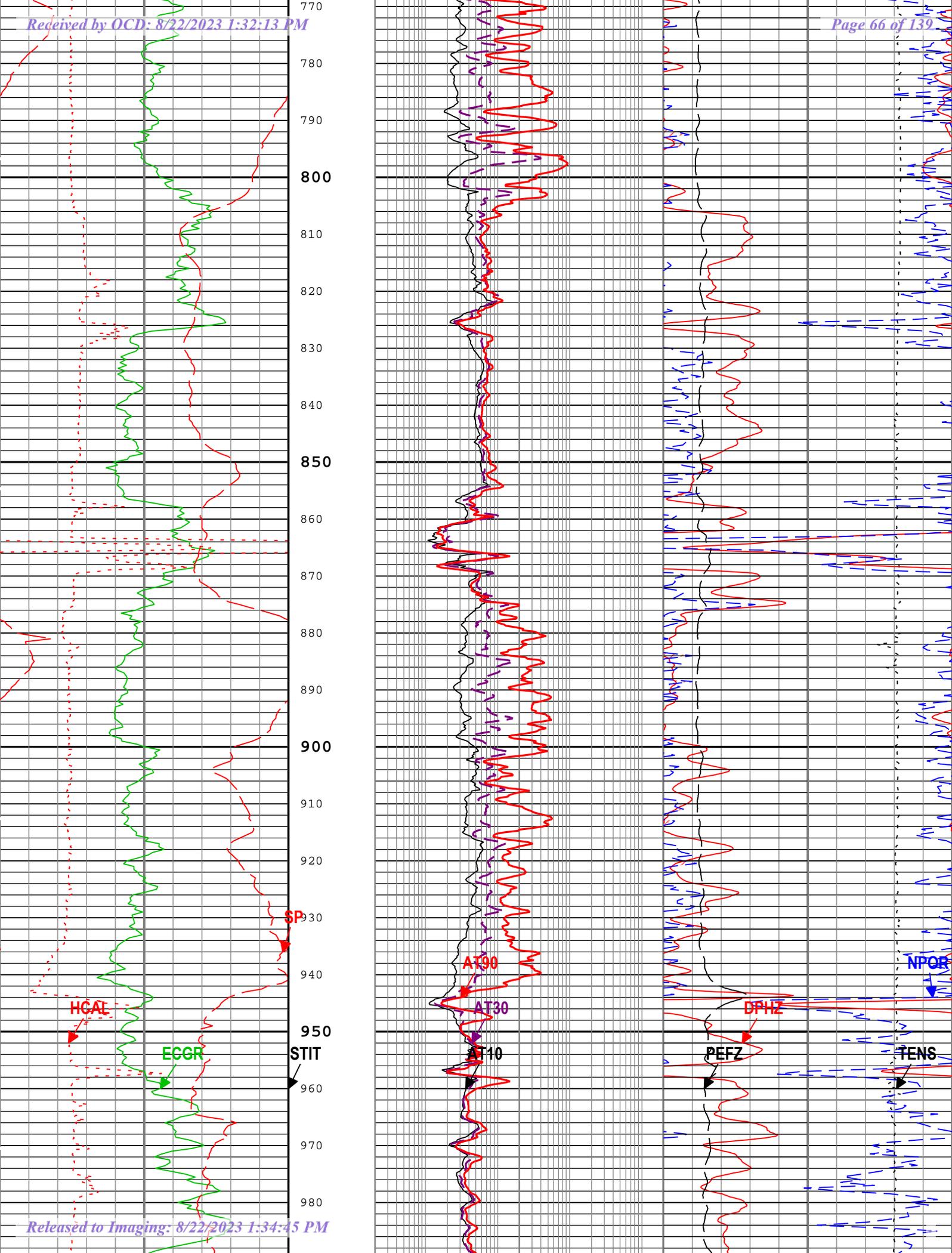
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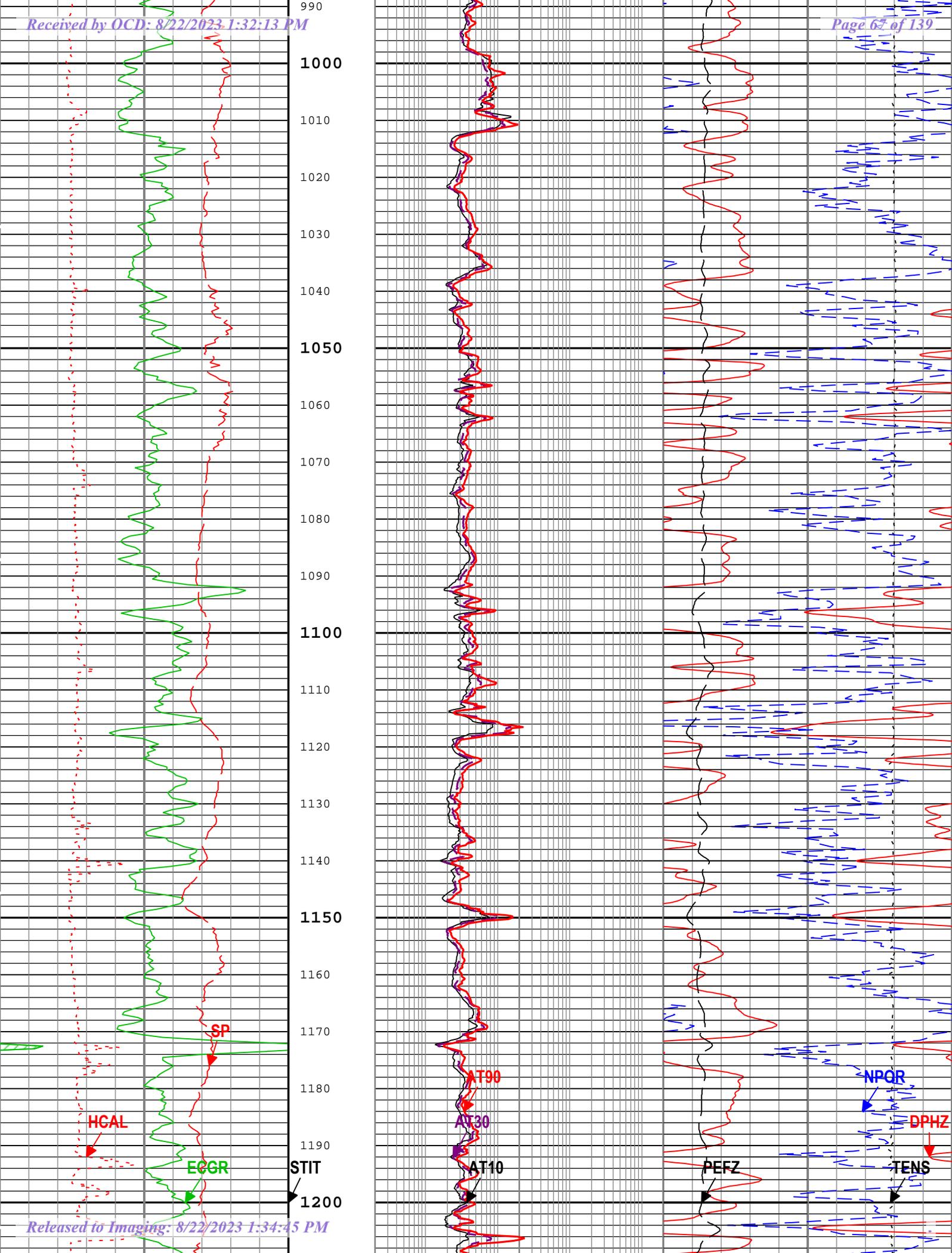
ENCLOSURE J: TRIPLE COMBO LOG

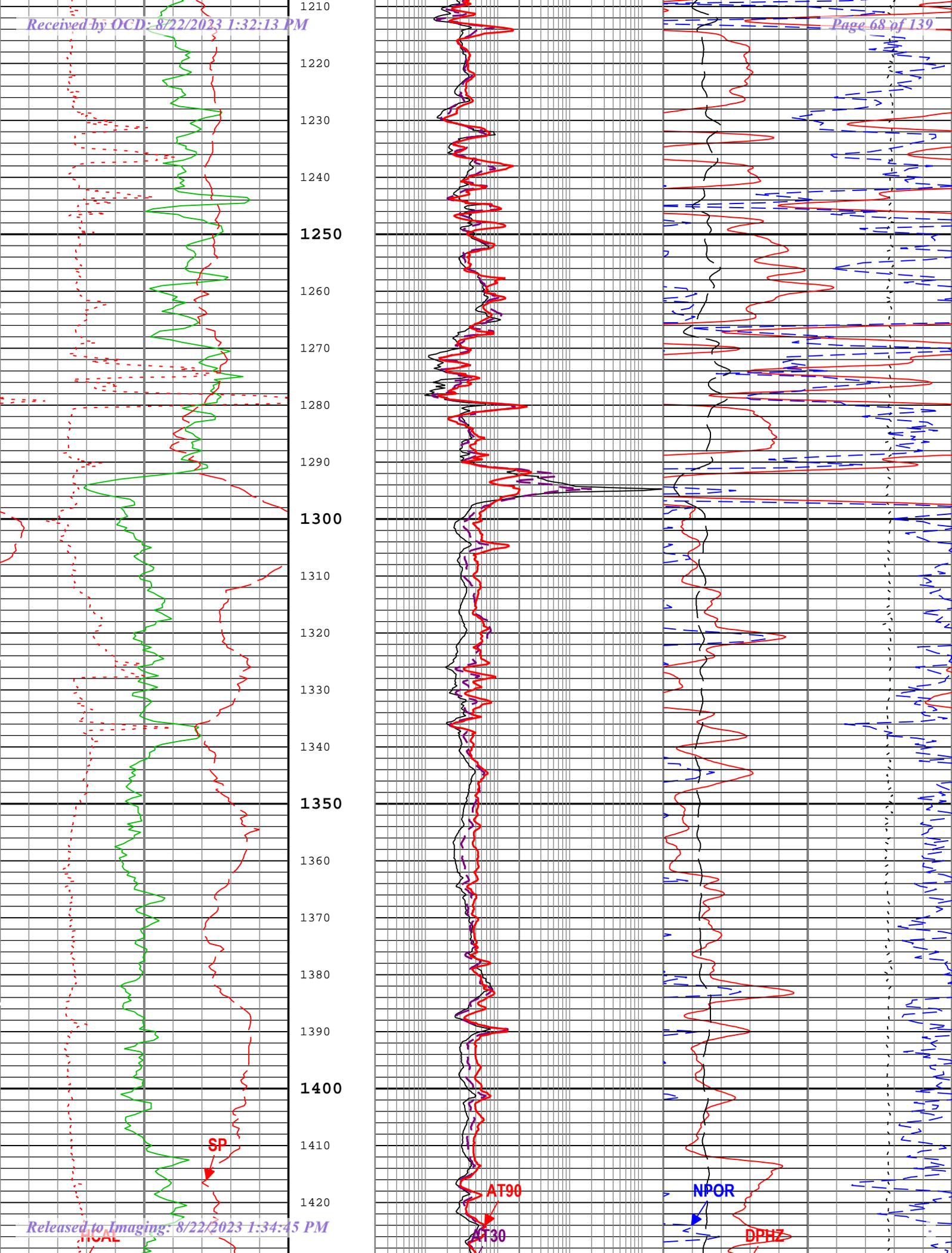










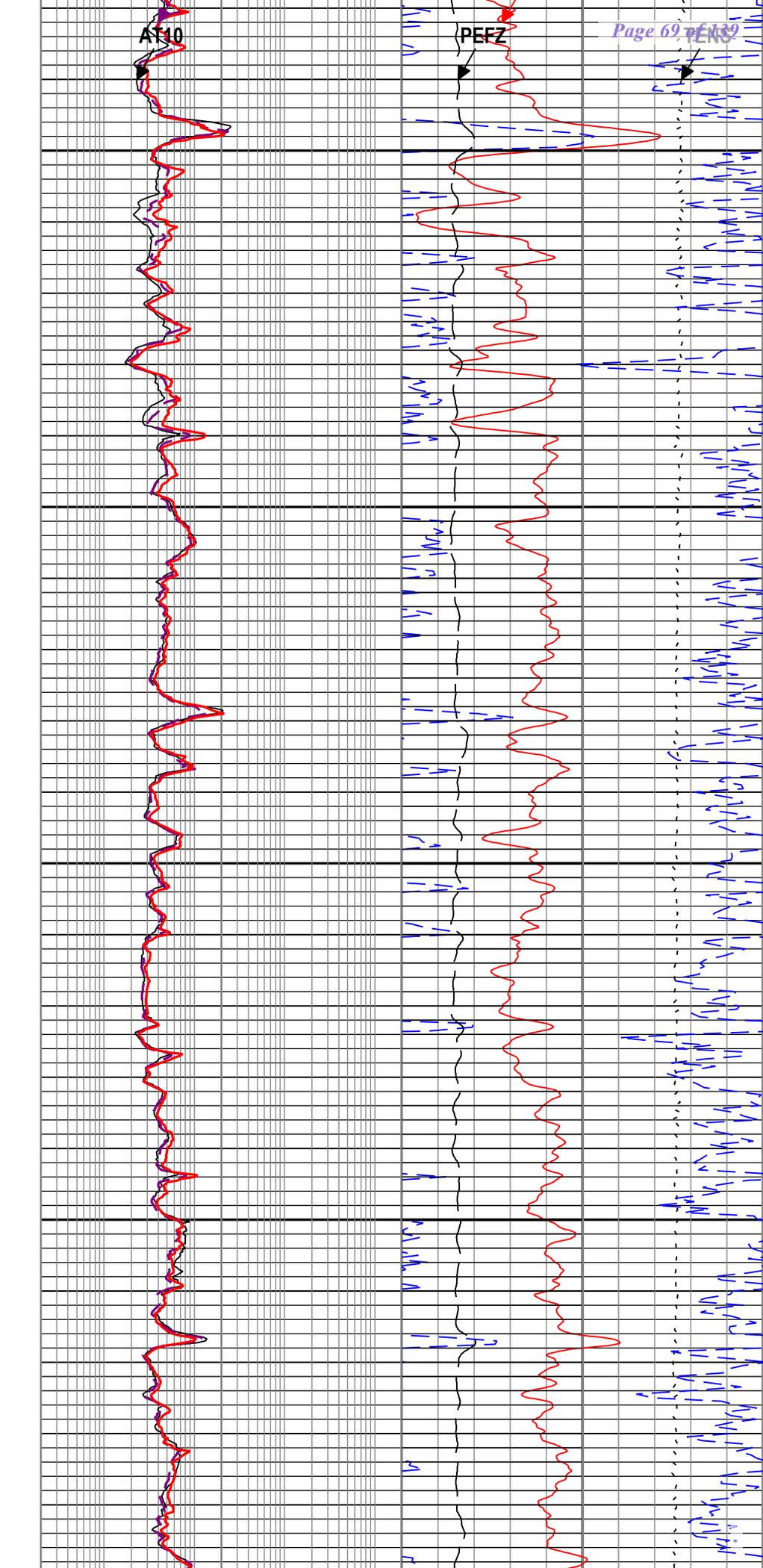


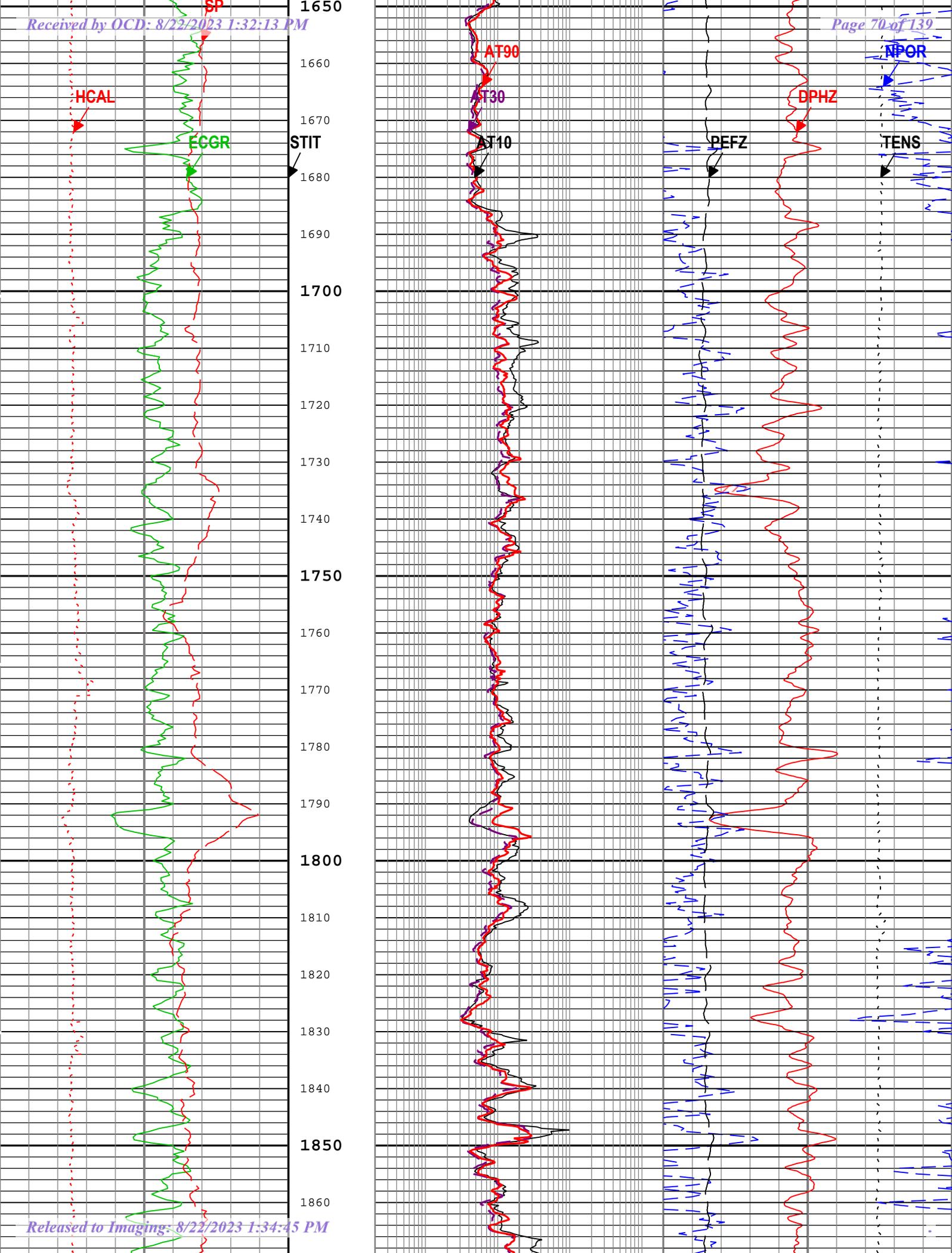
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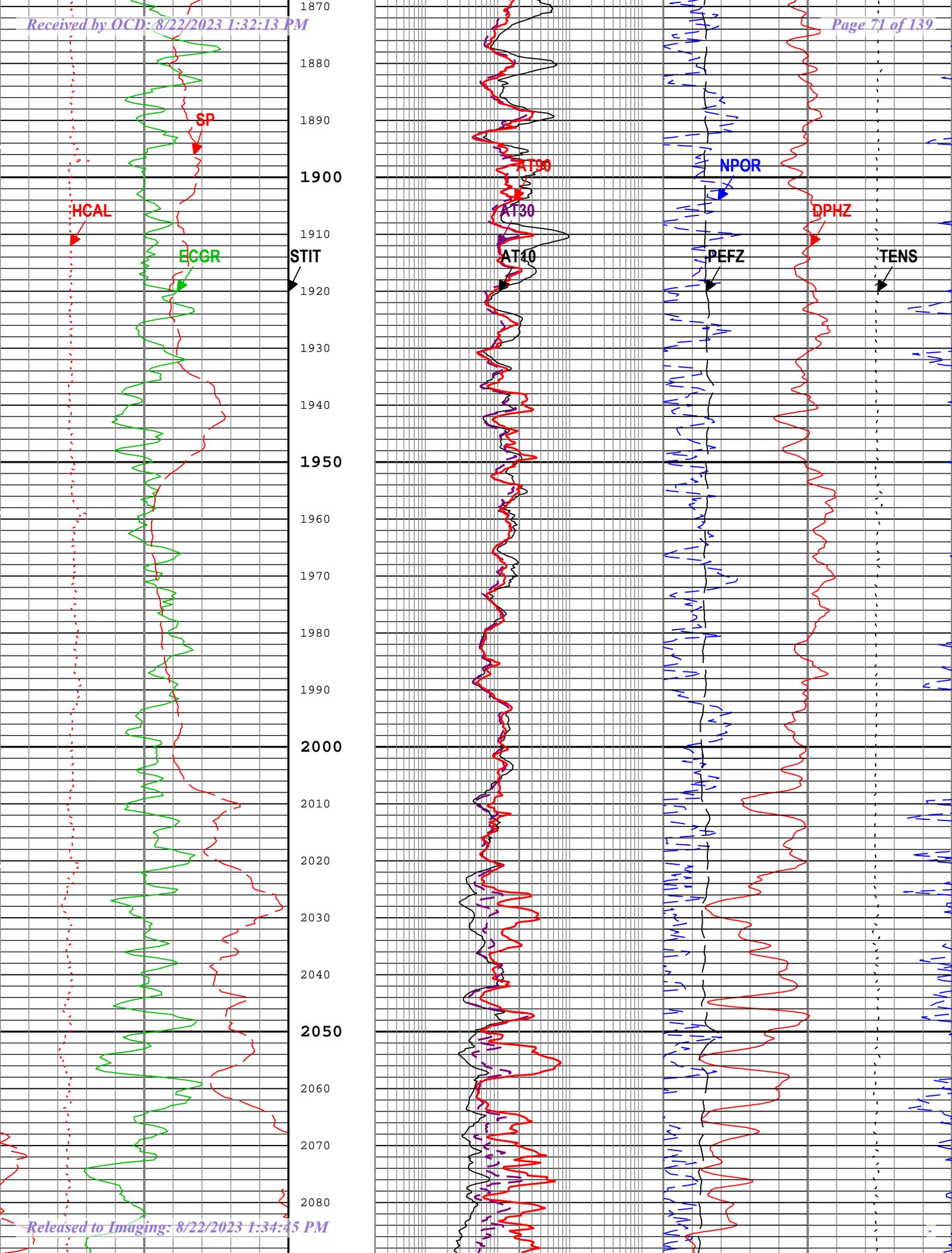
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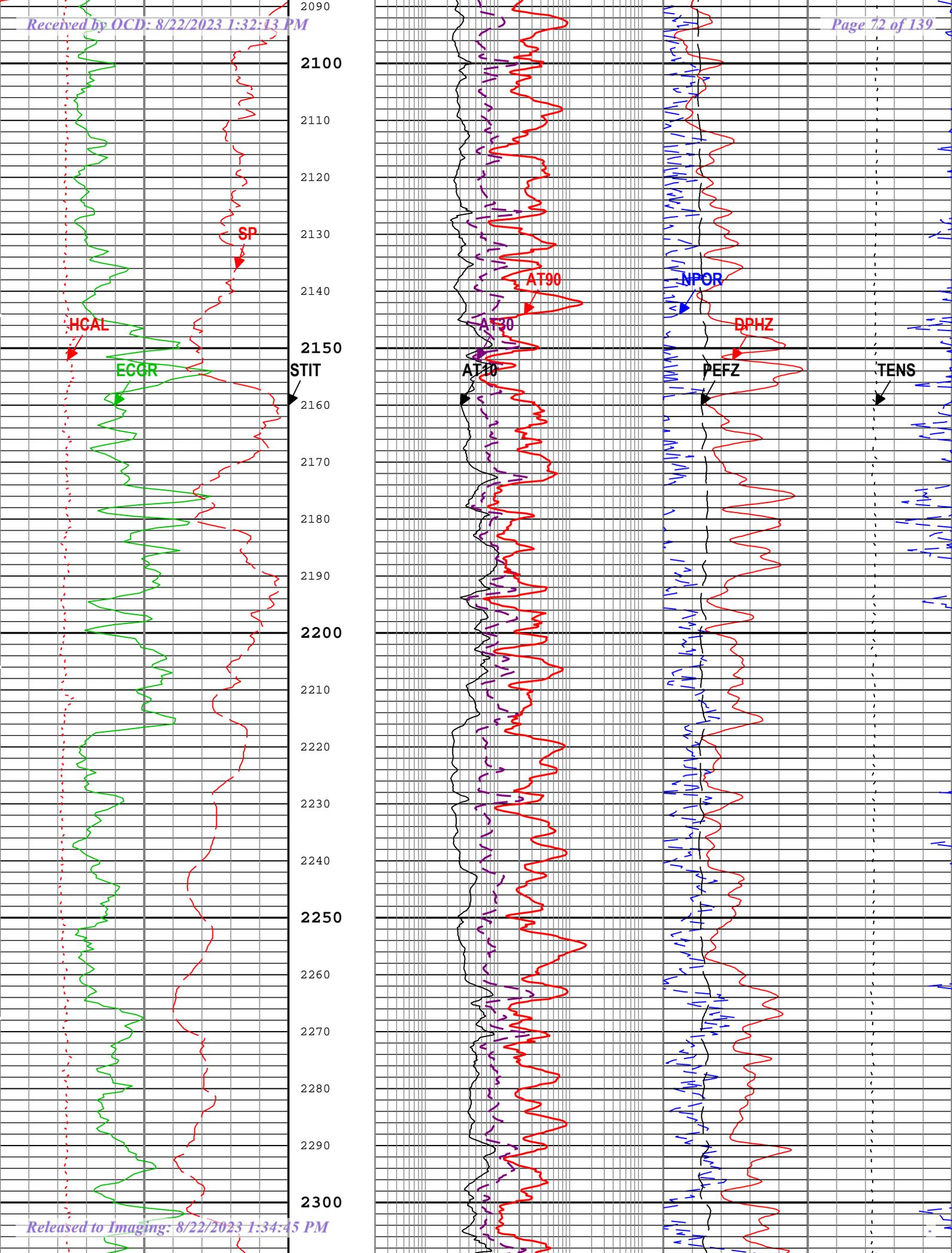
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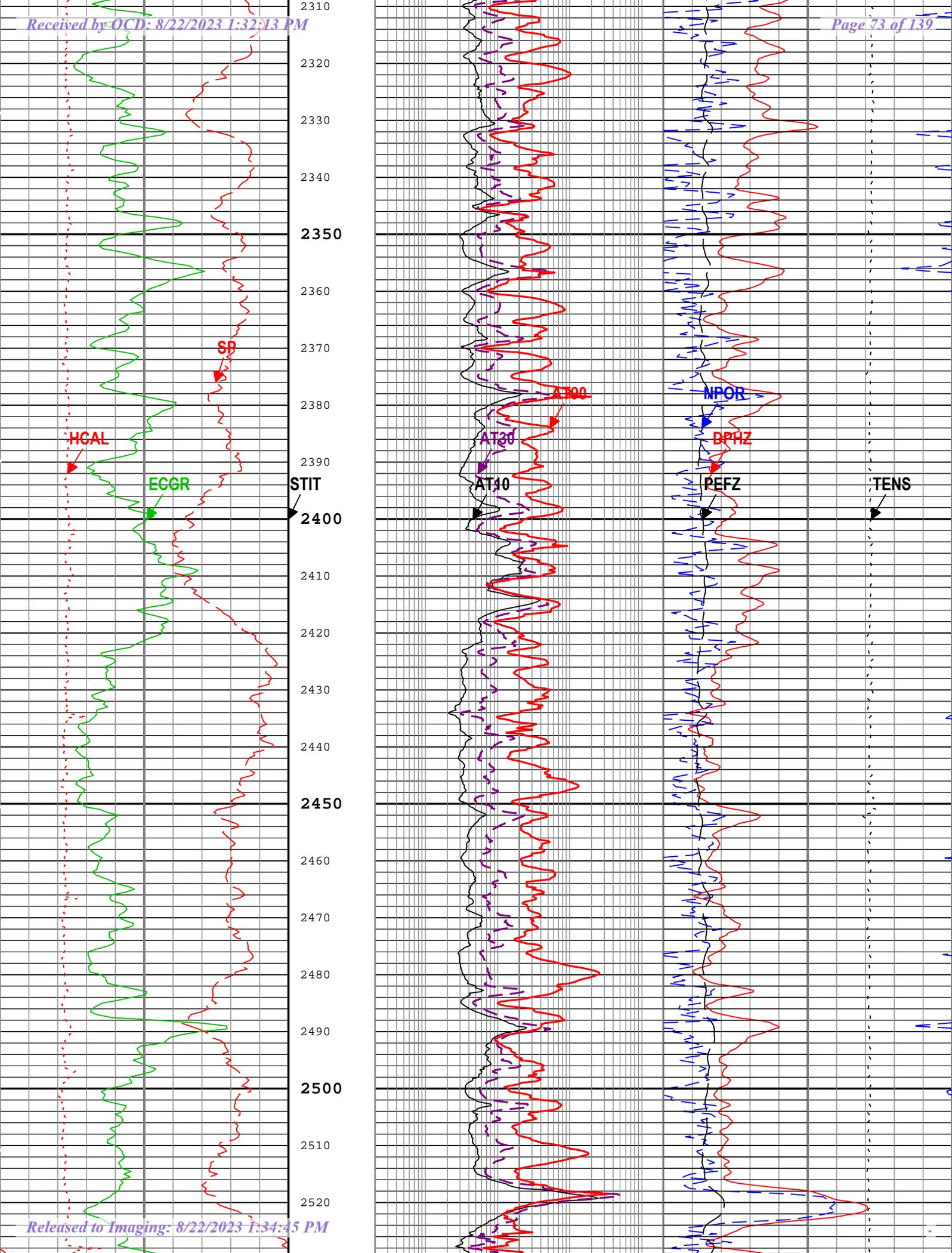
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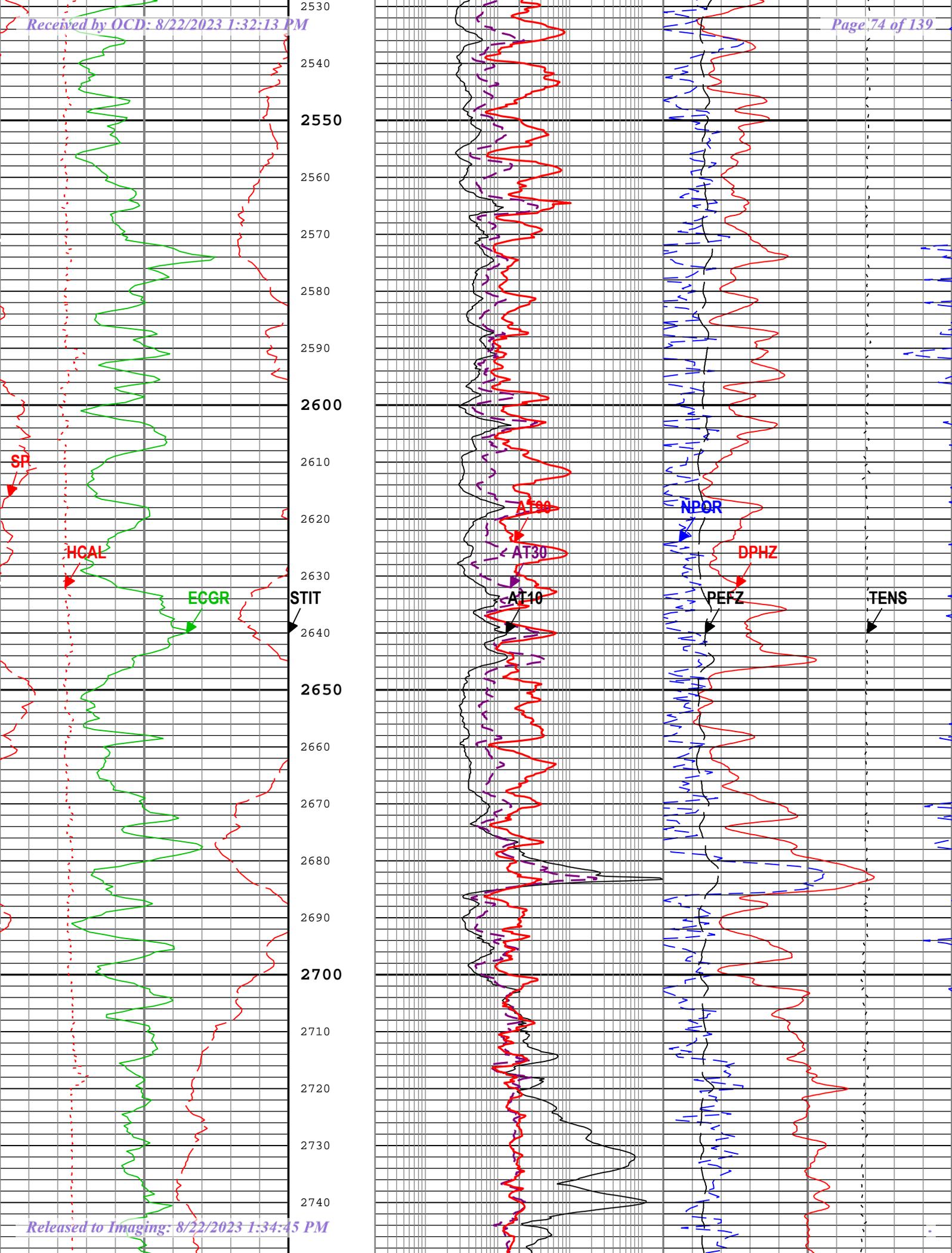


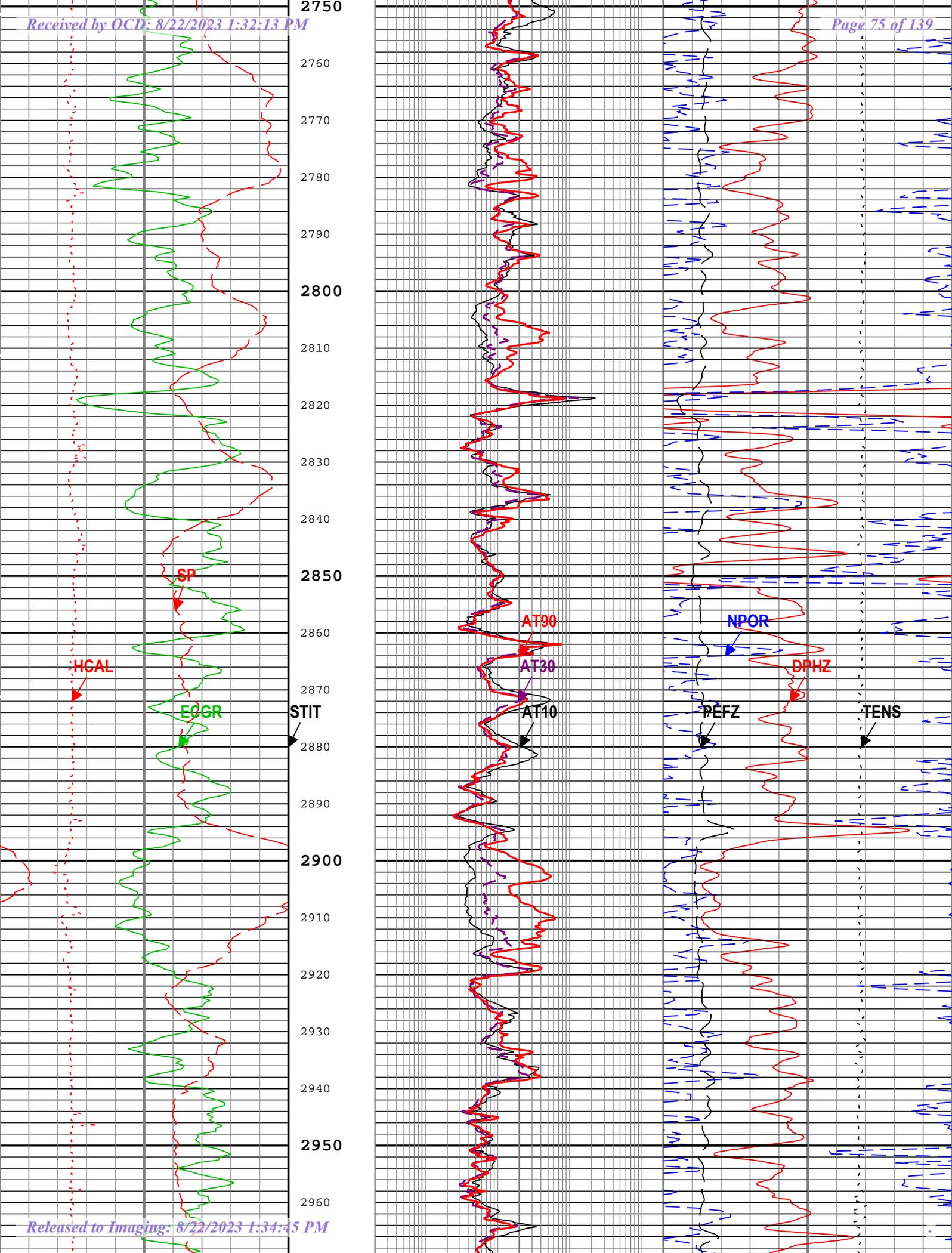


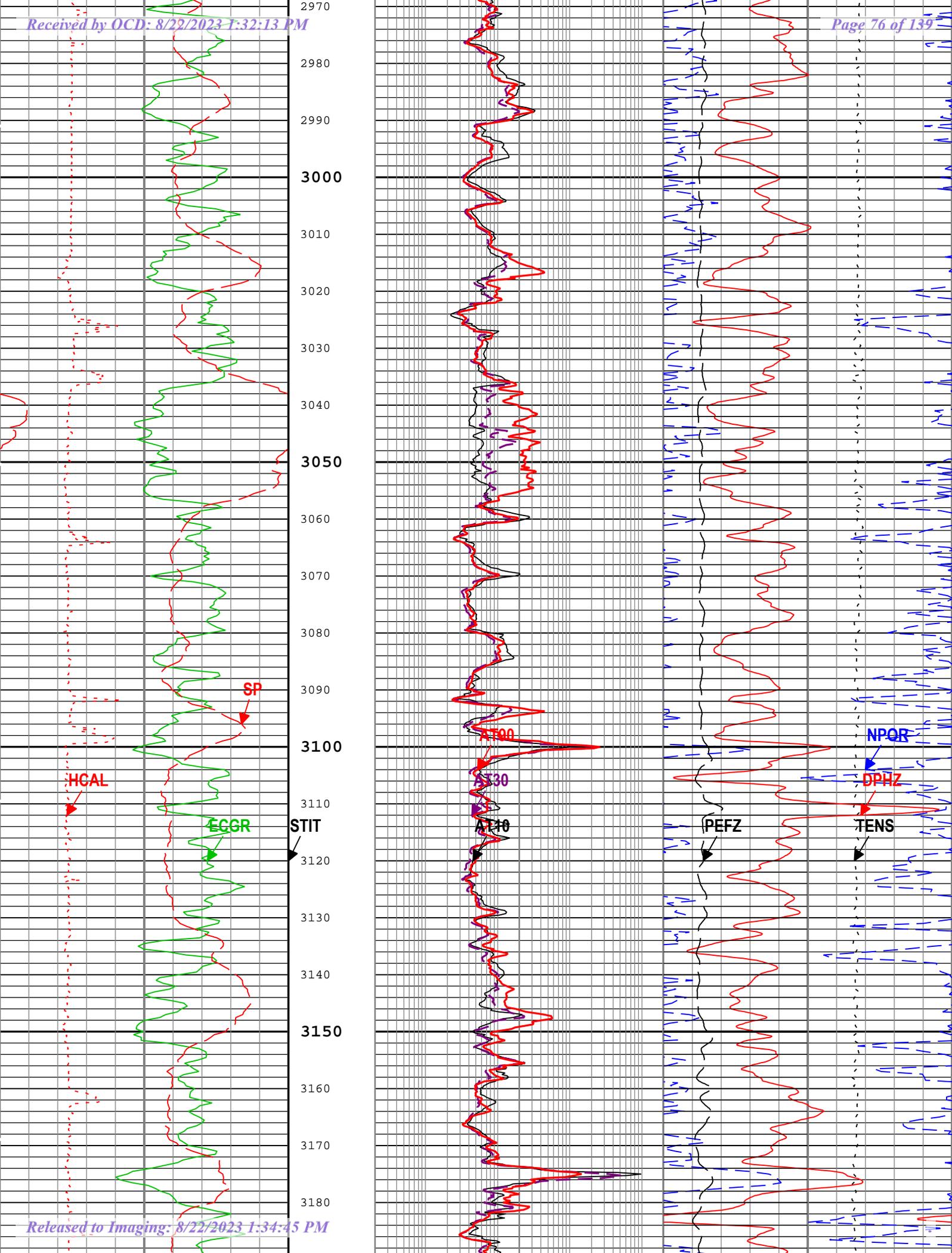


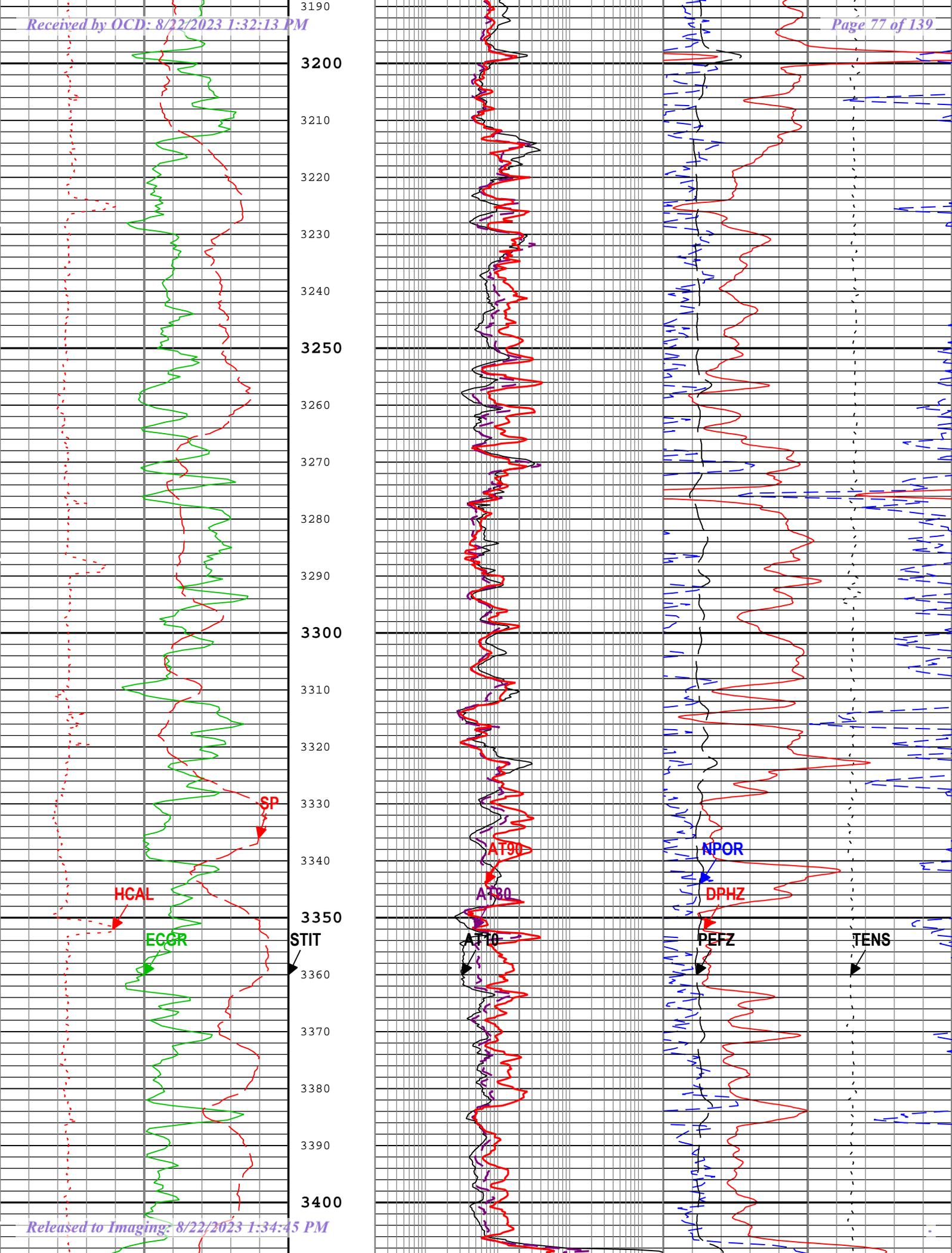


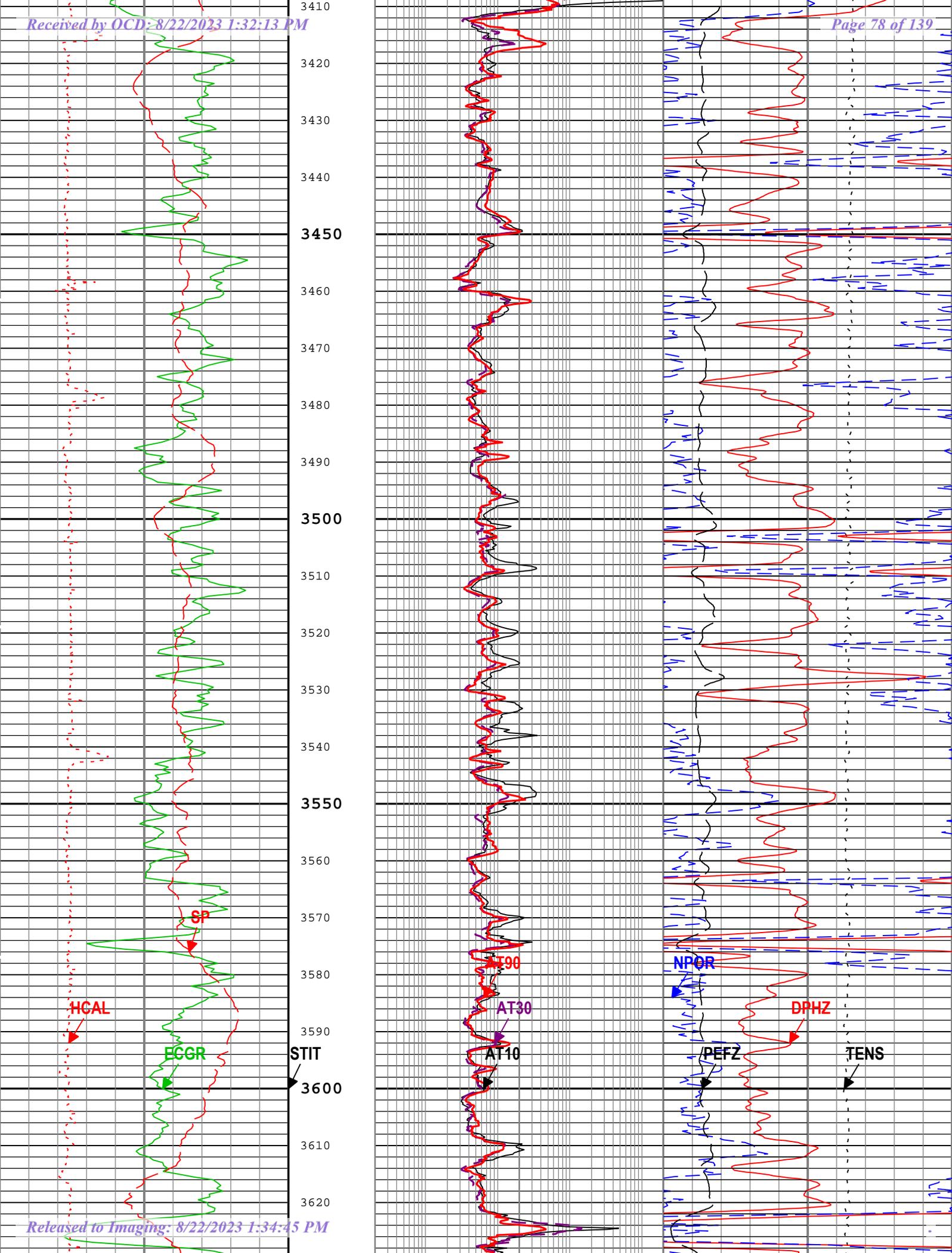


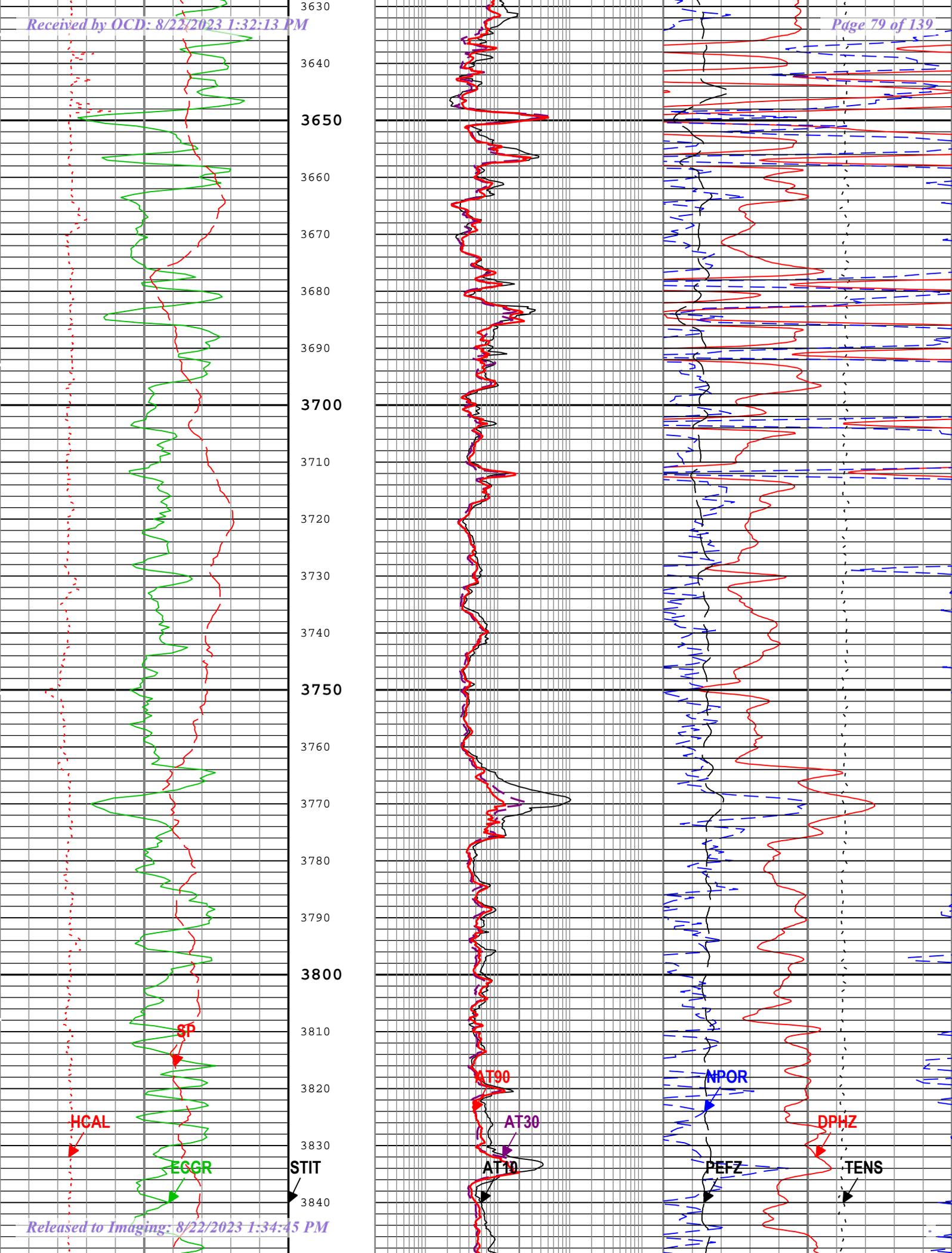


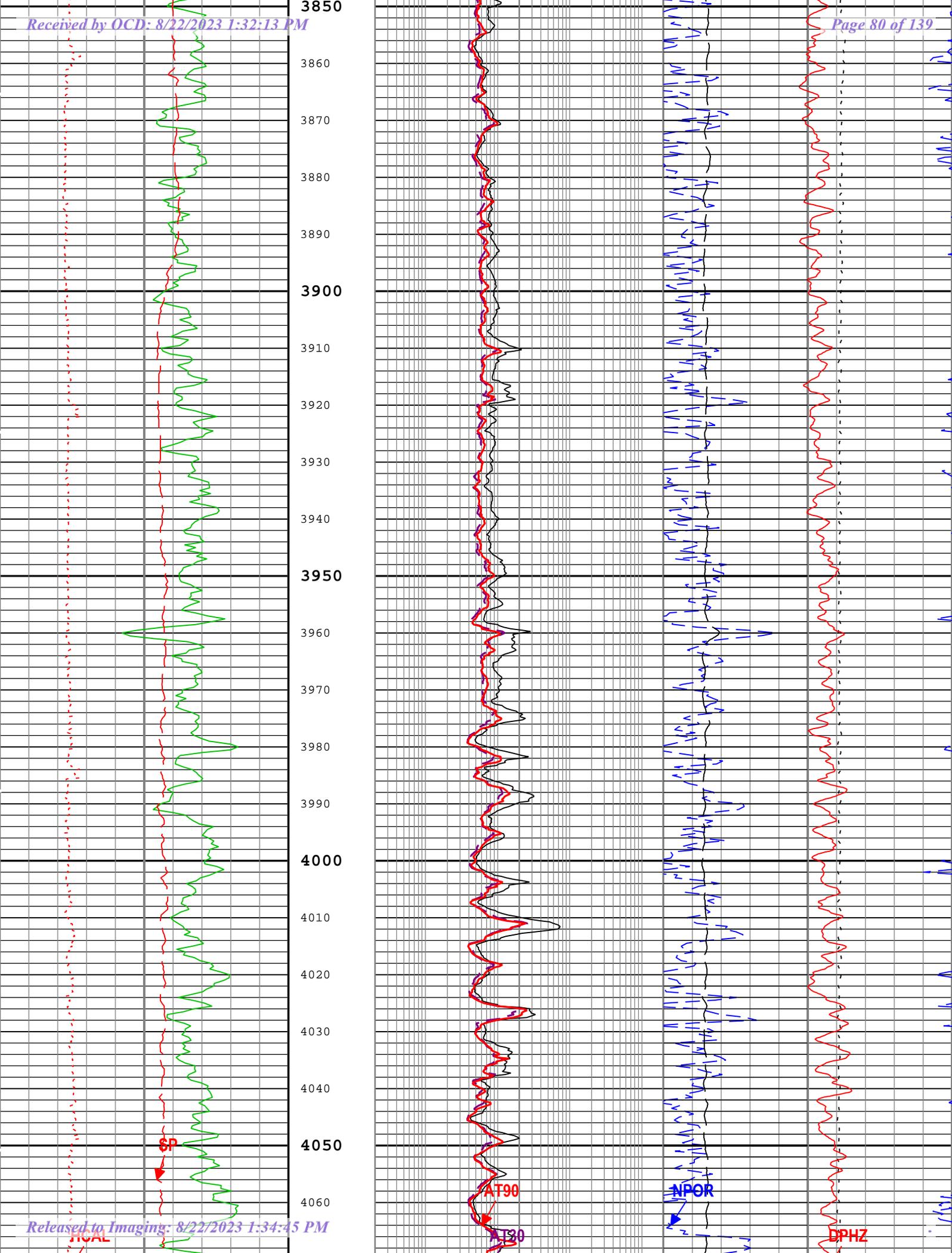












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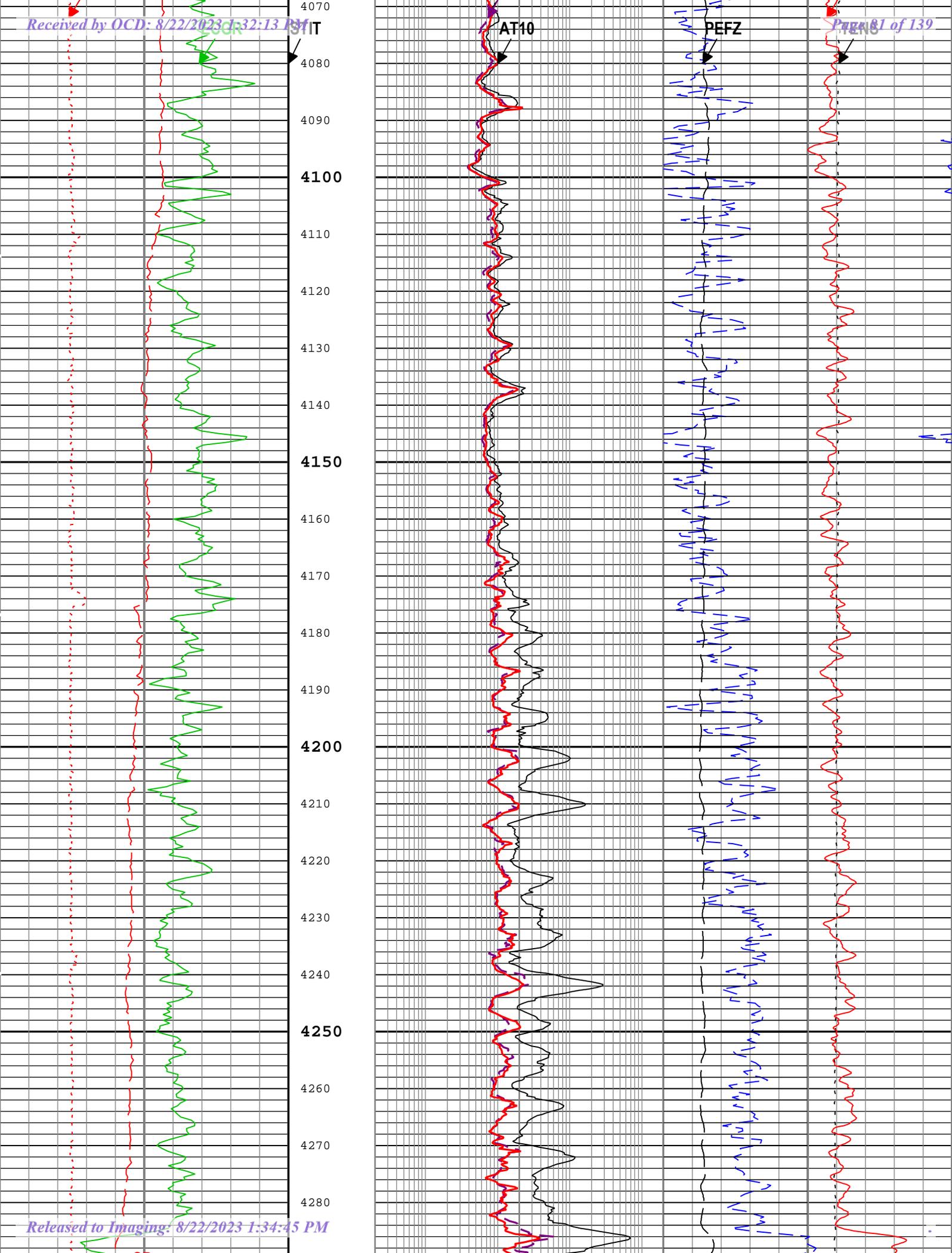
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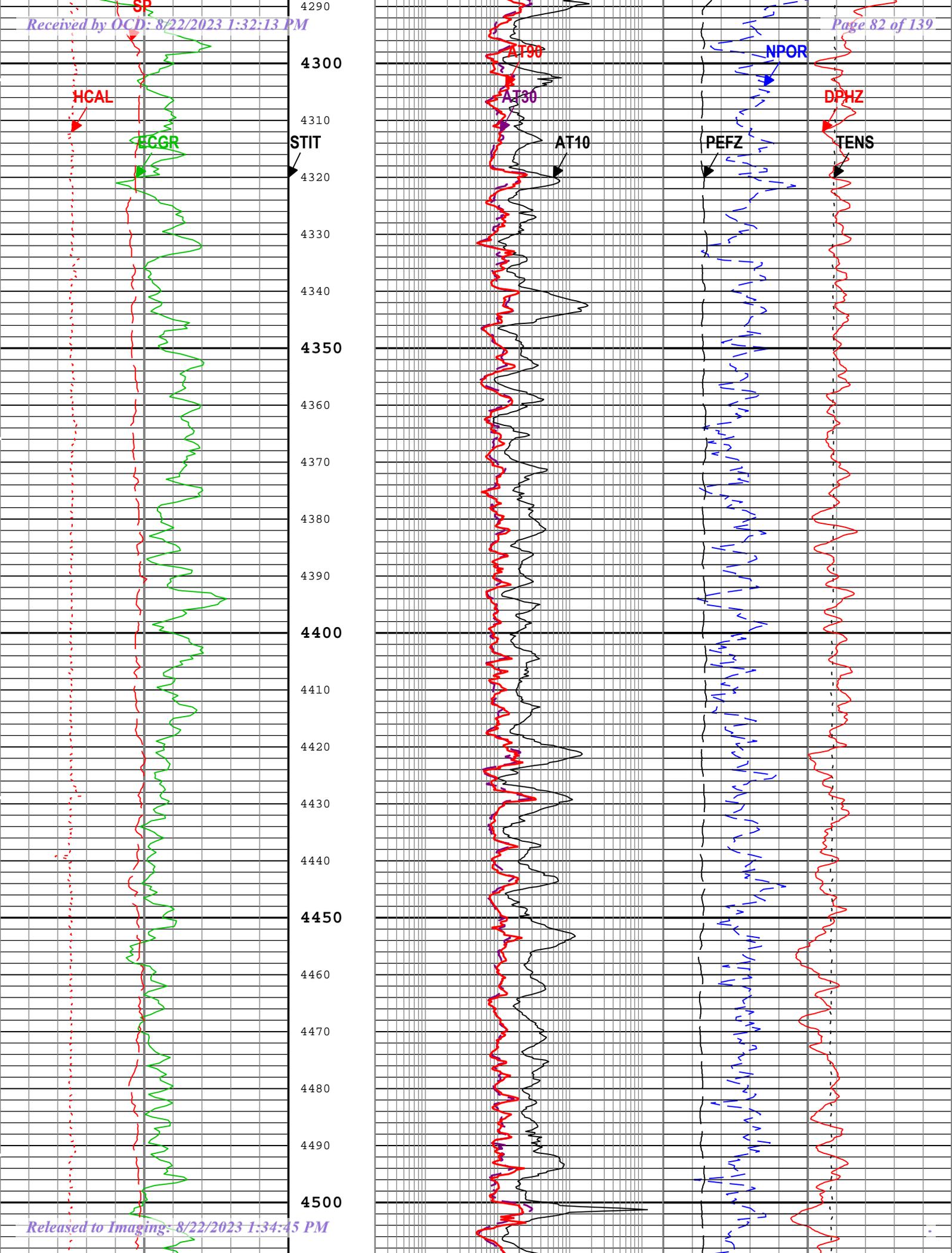
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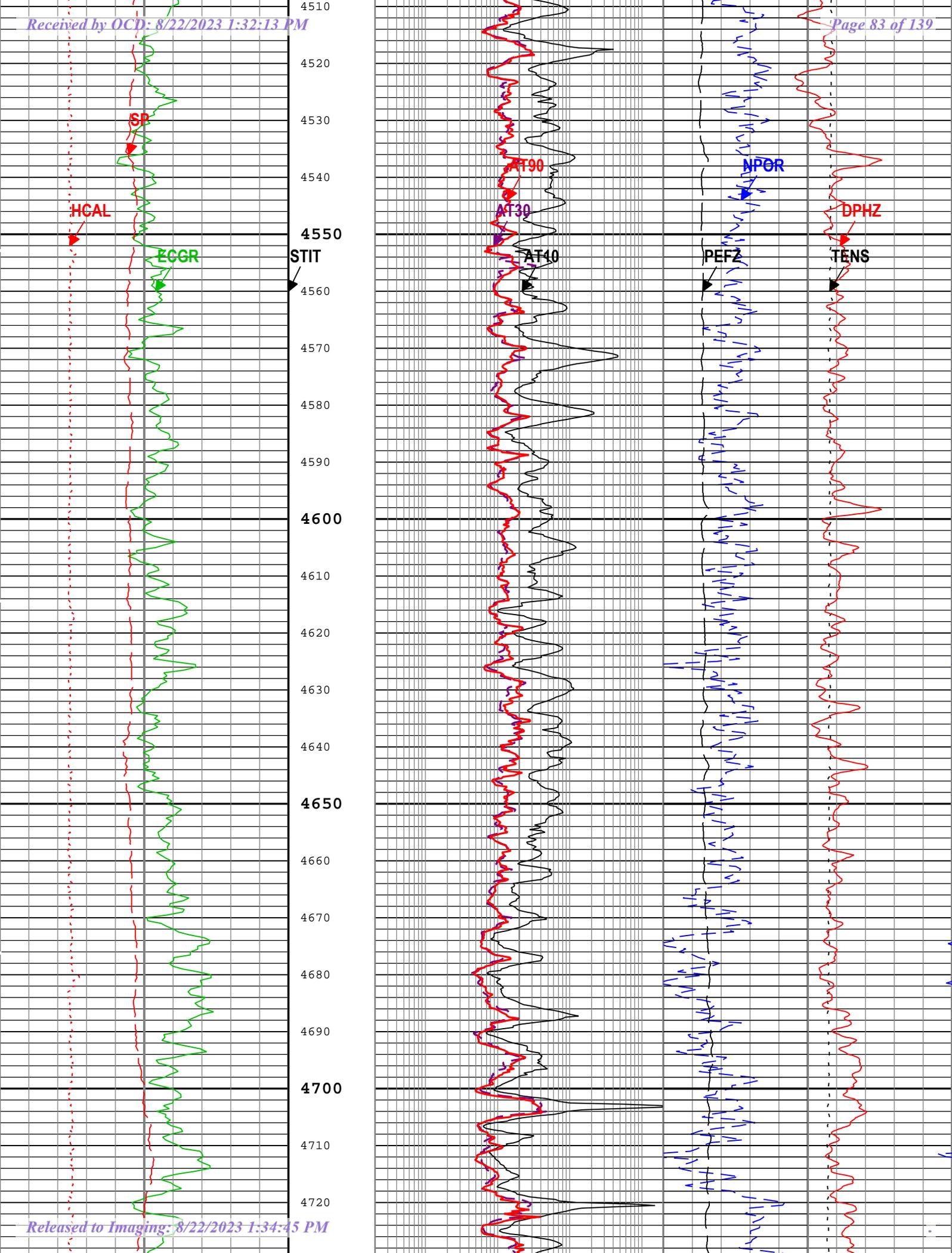
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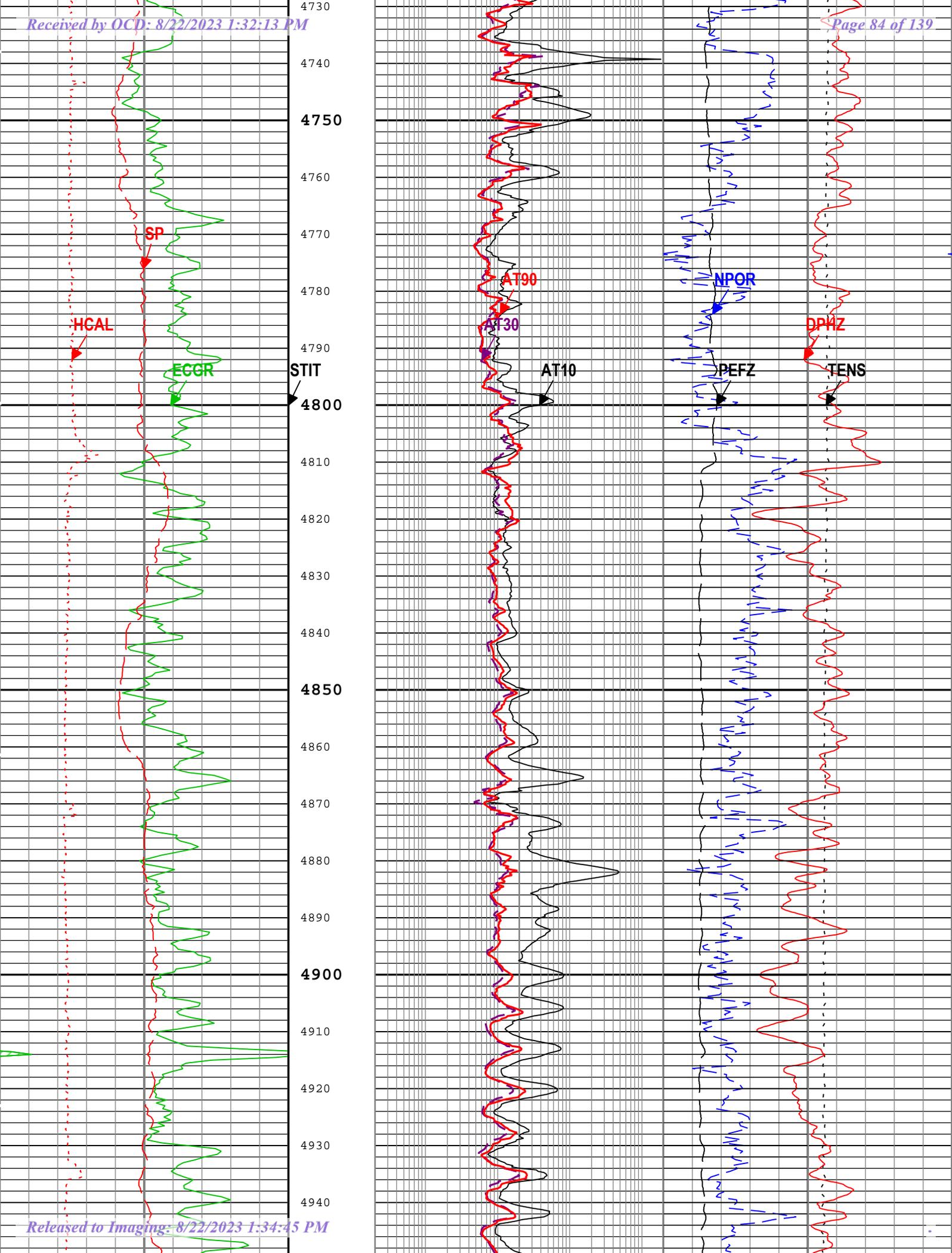
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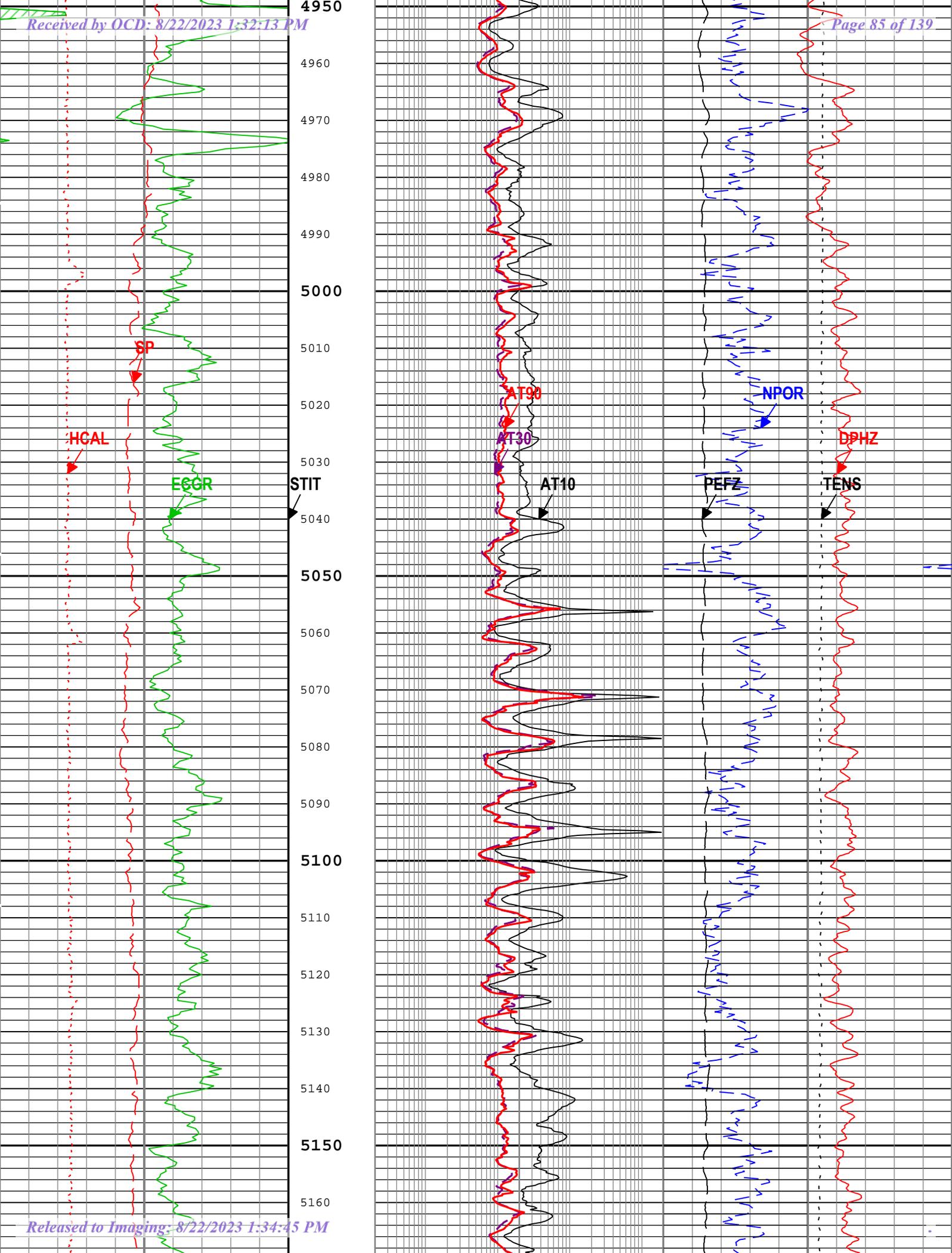
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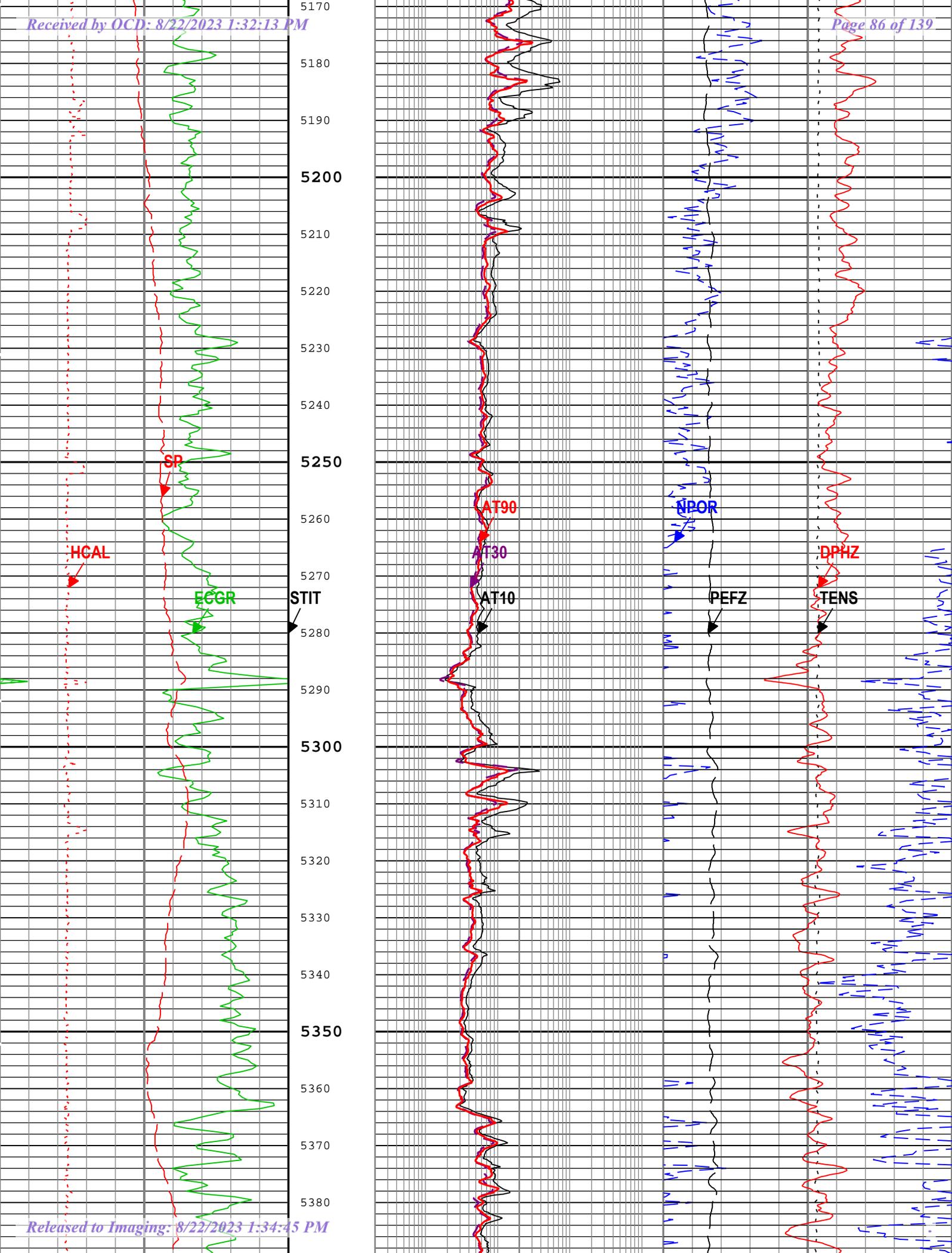


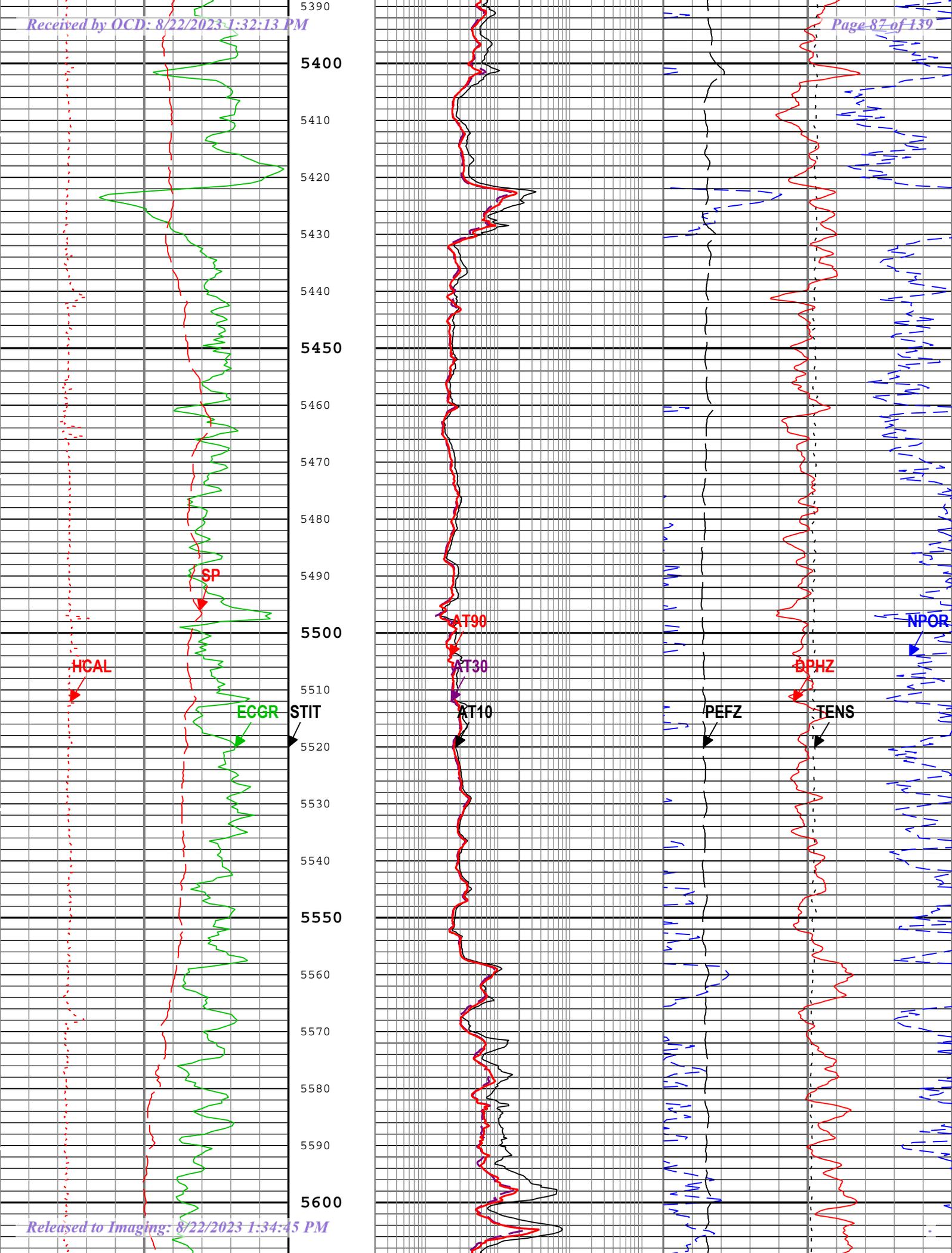


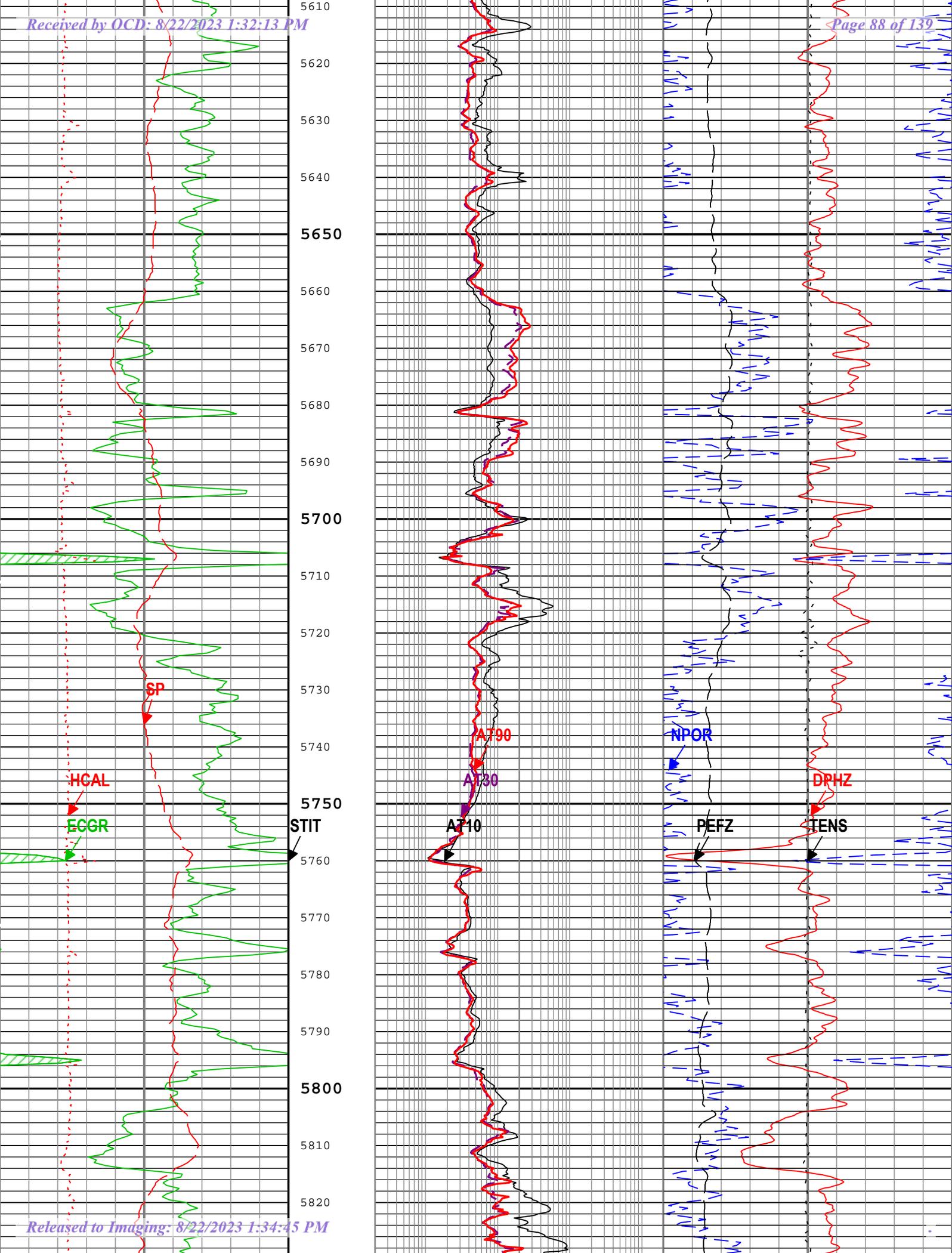


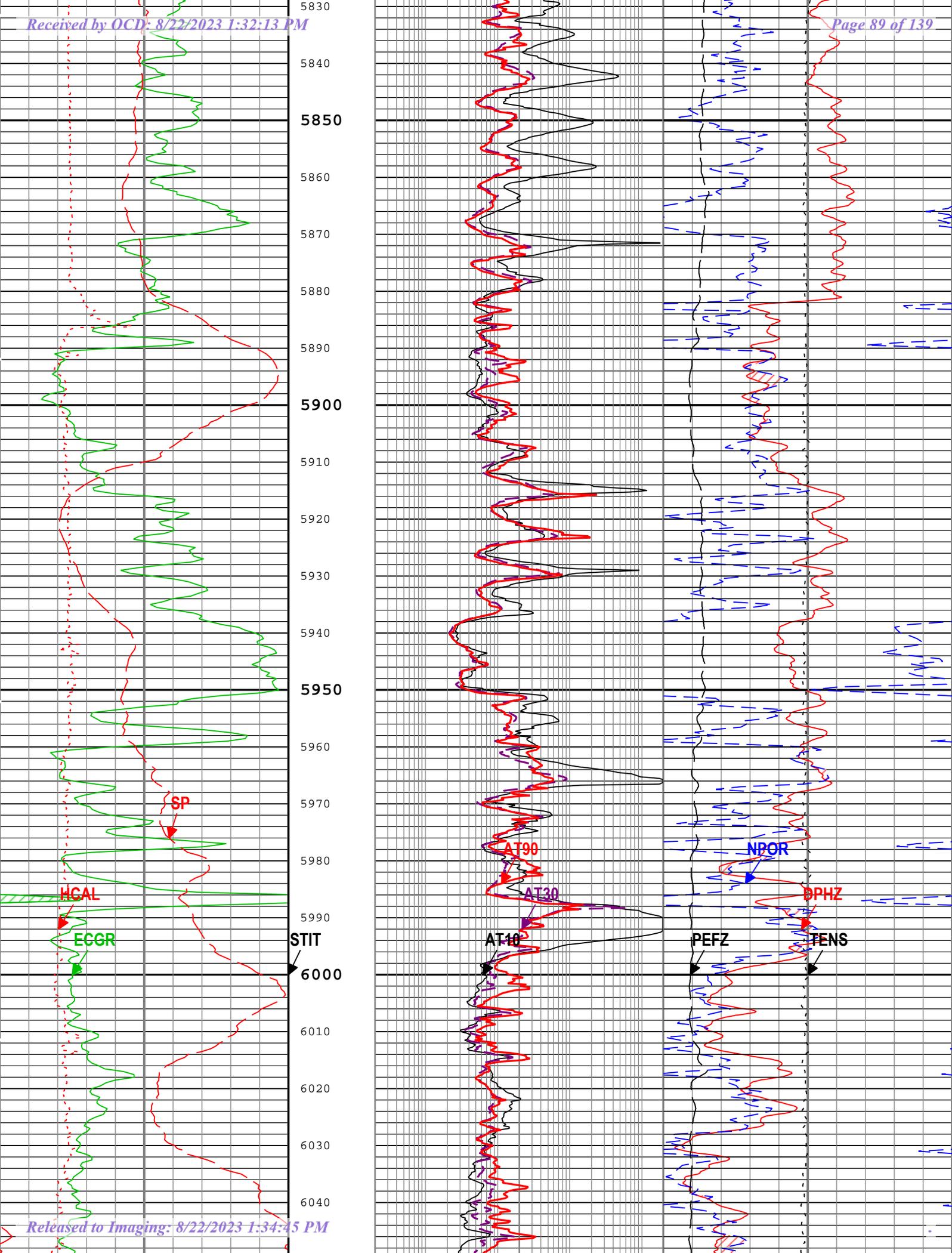












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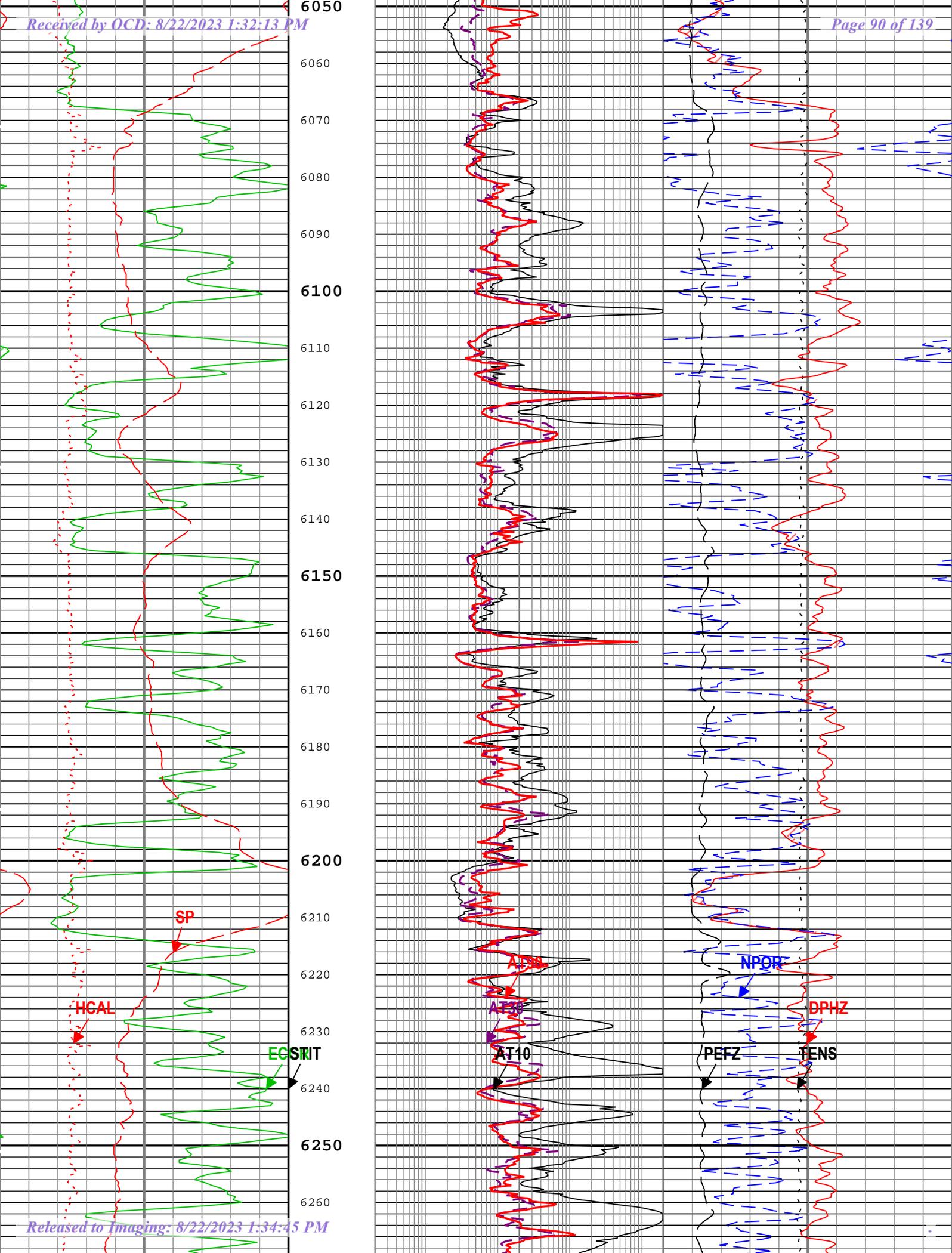
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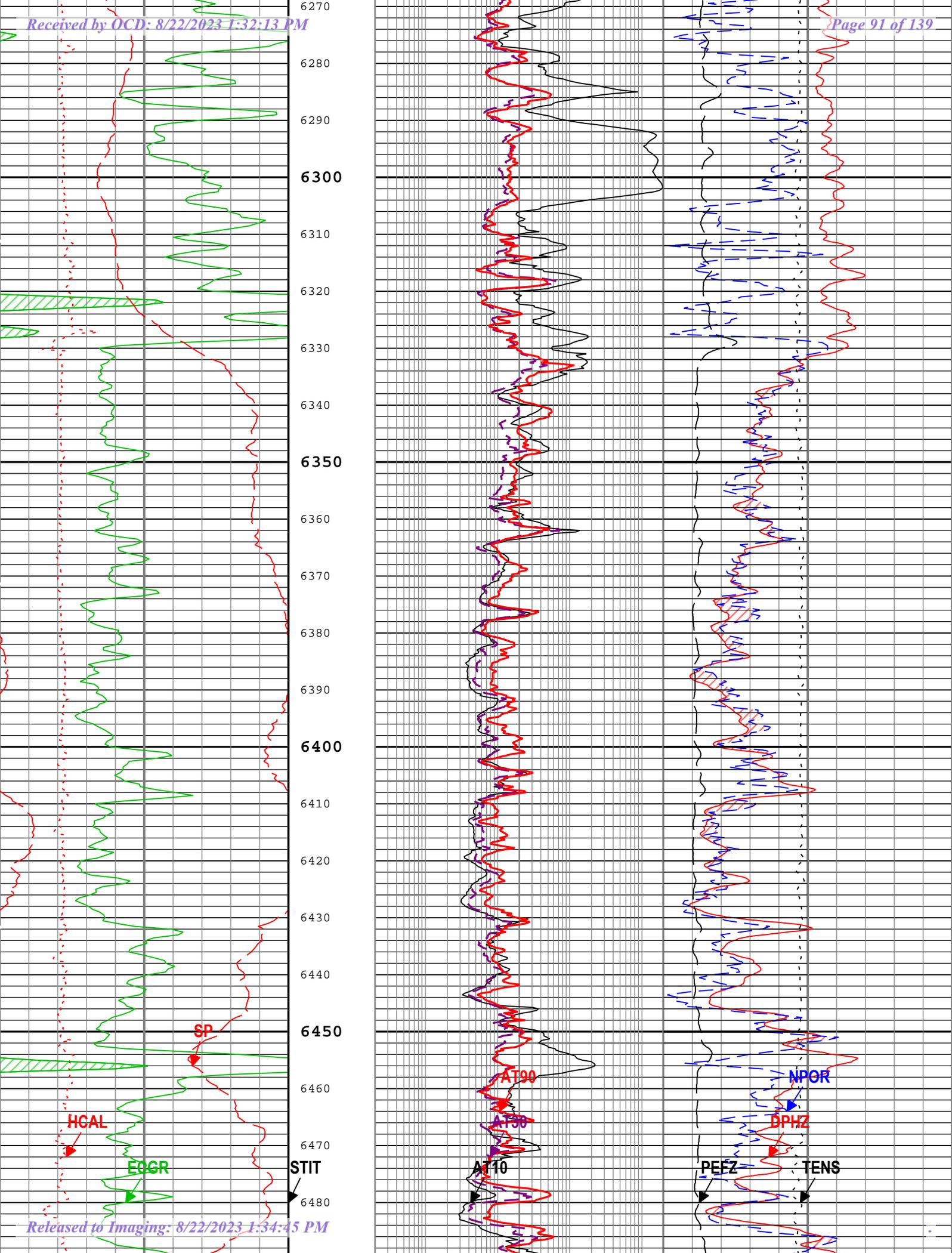
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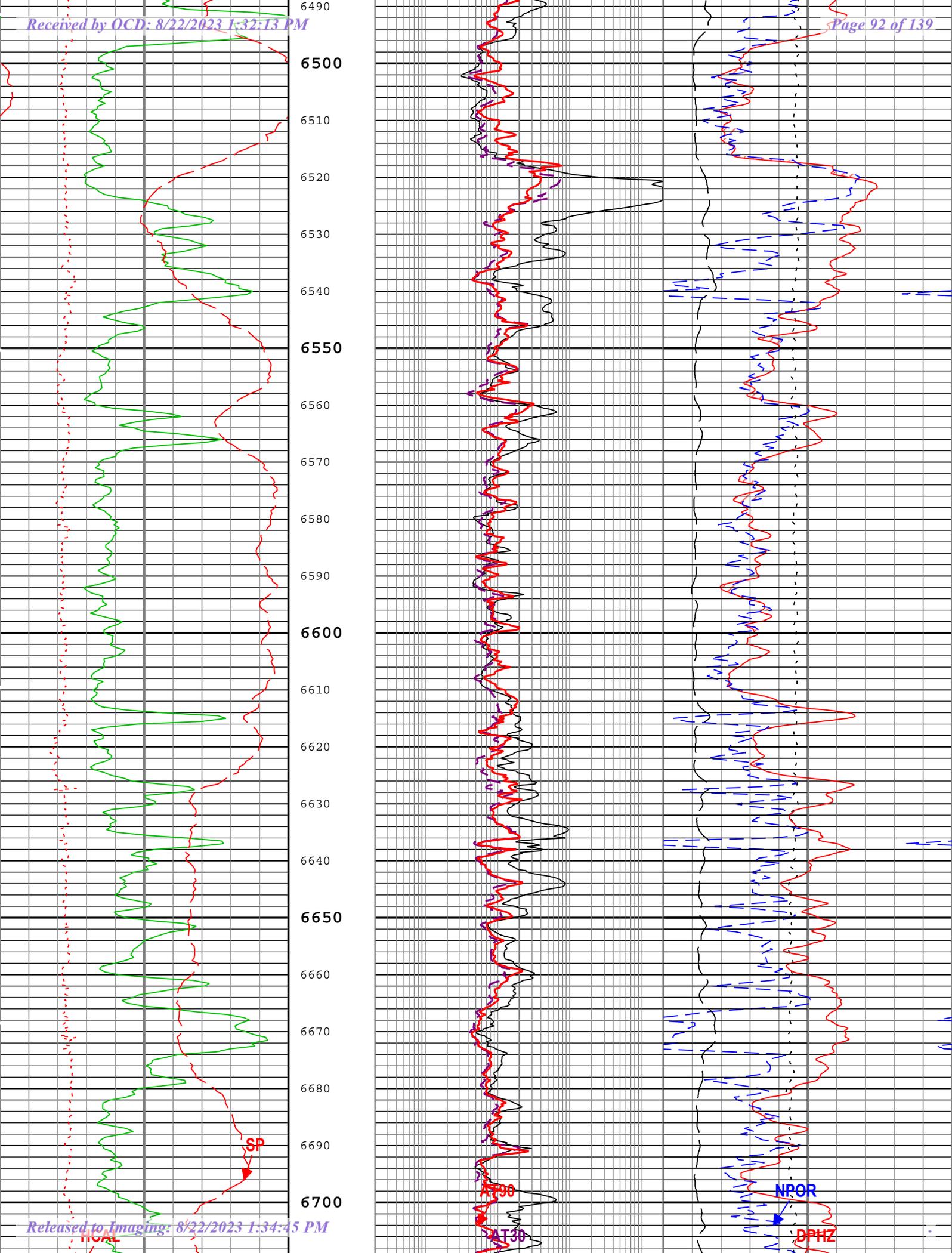
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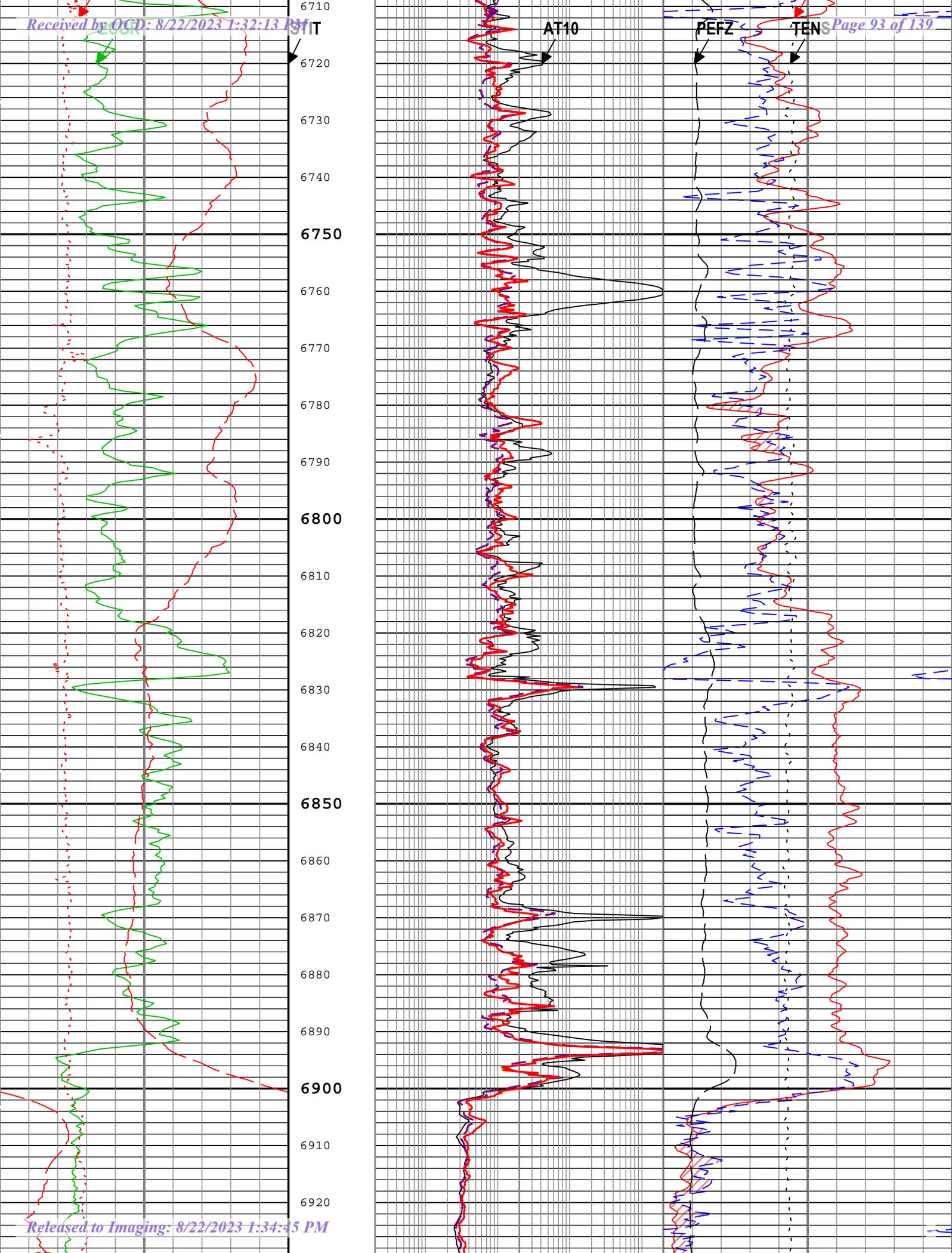
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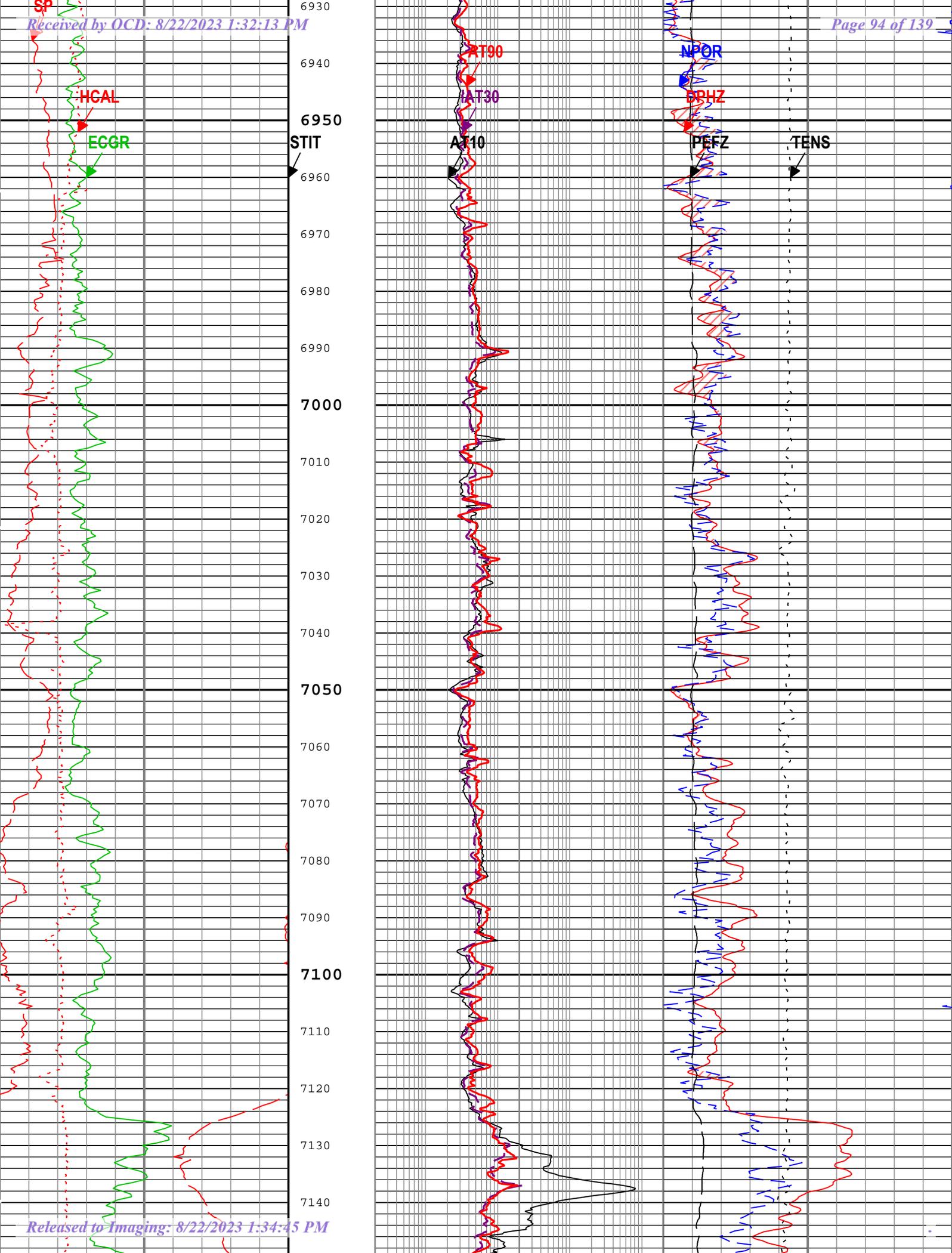
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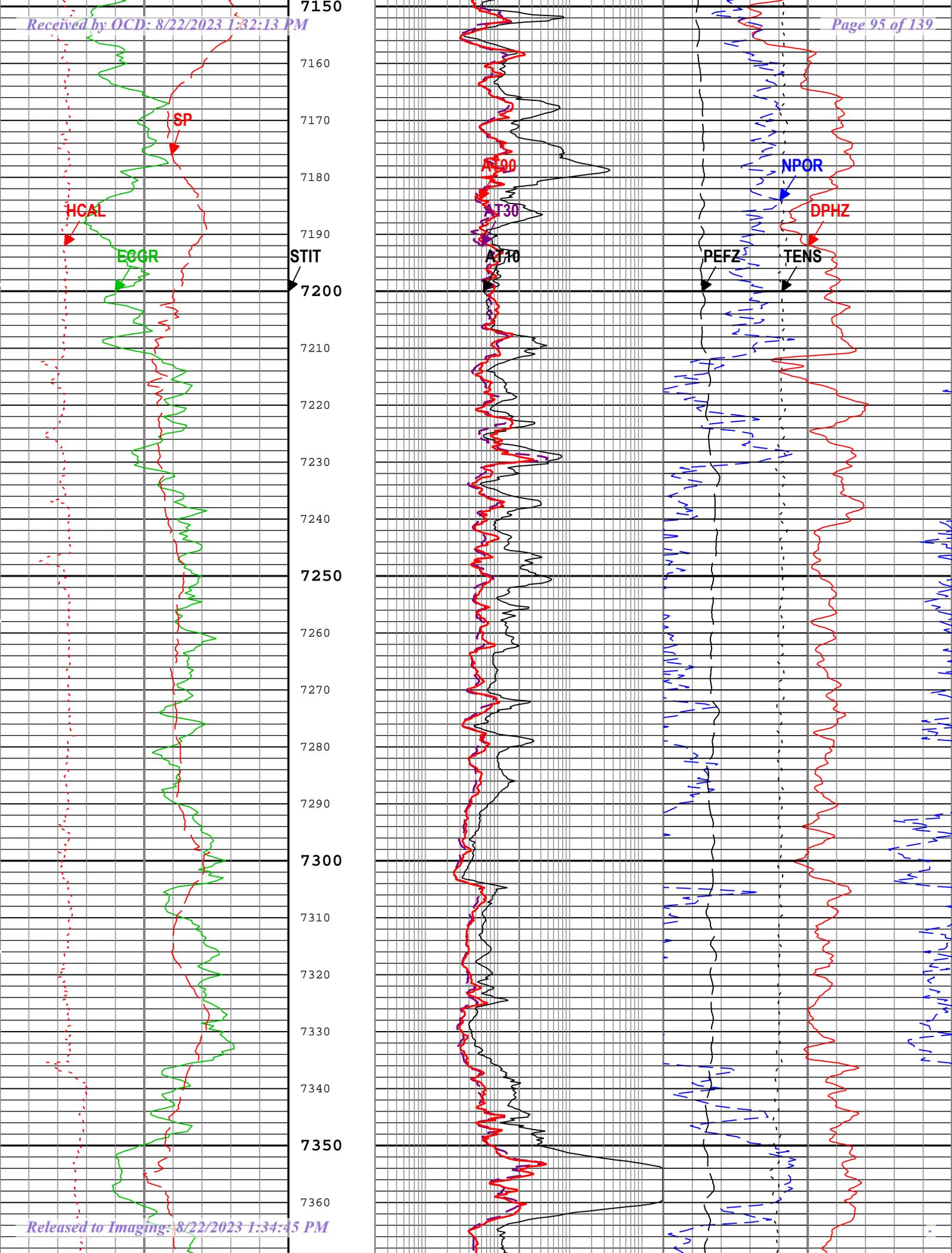


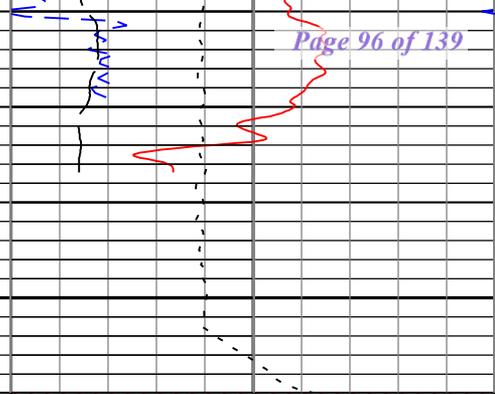
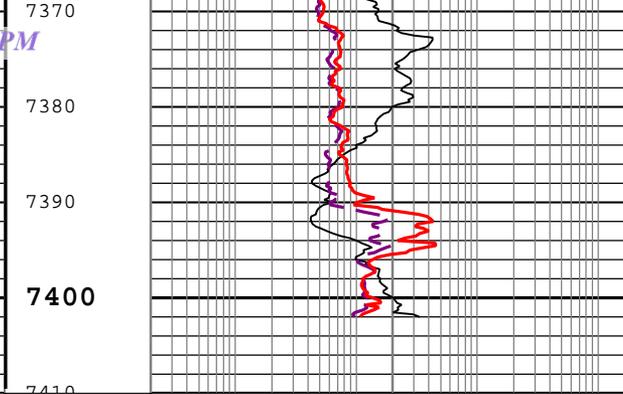
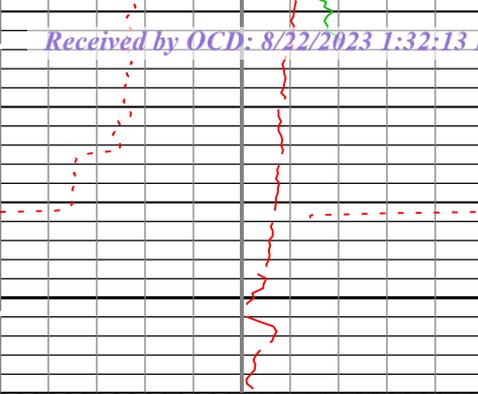












Gamma Ray Back up	
Gamma Ray (ECGR) HGNS-H	200
gAPI	200
Caliper (HCAL) HDRS-H	
6 in	16
Spontaneous Potential (SP) AIT-M	
-80 mV	20

Stuck Tool Indicator, Total (STIT)	0	ft	50
Array Induction Two Foot Resistivity A10 (AT10) AIT-M	0.2	ohm.m	2000
Array Induction Two Foot Resistivity A30 (AT30) AIT-M	0.2	ohm.m	2000
Array Induction Two Foot Resistivity A90 (AT90) AIT-M	0.2	ohm.m	2000

Gas Effect	
NPOR Backup	
Cable Tension (TENS)	5000 lbf
Standard Resolution Density Porosity (DPHZ) HDRS-H	0.3 ft3/ft3
Enhanced Thermal Neutron Porosity in Selected Lithology (NPOR) HGNS-H	0.3 m3/m3
Standard Resolution Formation Photoelectric Factor (PEFZ) HDRS-H	0 10

TIME_1900 - Time Marked every 60.00 (s)

Description: HGNS standard resolution porosities for Platform Express Format: Log (TripleCombo-5) Index Scale: 5 in per 100 ft Index Unit: ft Index Type: Measured Depth Creation Date: 02-Oct-2018 17:50:55

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
BAR(ISSBAR)	Barite Mud Presence Flag	Borehole	No	
BHS	Borehole Status (Open or Cased Hole)	Borehole	Open	
BHT	Bottom Hole Temperature	Borehole	159.65	degF
BS	Bit Size	WLSESSION	8.5	in
BSAL	Borehole Salinity	Borehole	0	ppm
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
DFD	Drilling Fluid Density	Borehole	8.6	lbm/gal
DFT_CATEGORY	Drilling Fluid Type	Borehole	Water	
DFT_WATER	Drilling Fluid Water Type	Borehole	WBM	
DHC	Density Hole Correction	HDRS-H	Bit Size	
FD	Fluid Density	Borehole	1	g/cm3
FSAL	Formation Salinity	Borehole	0	ppm
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	
GTSE	Generalized Temperature Selection, from Measured or Computed Temperature	Borehole	CTEM	
HSCO	Hole Size Correction Option	HGNS-H	Yes	
MATR	Rock Matrix for Neutron Porosity Corrections	Borehole	SANDSTONE	
MDEN	Matrix Density for Density Porosity	Borehole	2.68	g/cm3
MFST	Mud Filtrate Sample Temperature	Borehole	68	degF
RMFS	Resistivity of Mud Filtrate Sample	Borehole	0.14	ohm.m
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
HMCA_BOARD_TYPE	HMCA Board Type	HGNS-H	1	
HRGD_BOARD_TYPE	HRGD Board Type	HDRS-H	WITH_HET	
MAX_LOG_SPEED	Toolstring Maximum Logging Speed	WLSESSION	3600	ft/h

One

5" Triple Combo

Pass Summary

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

All depths are referenced to toolstring zero

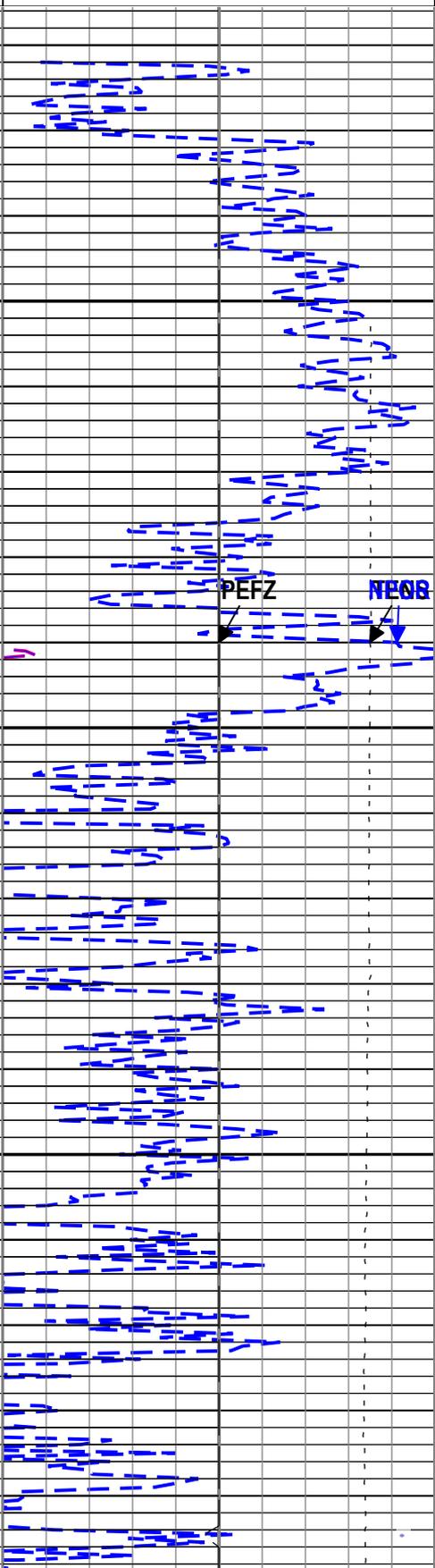
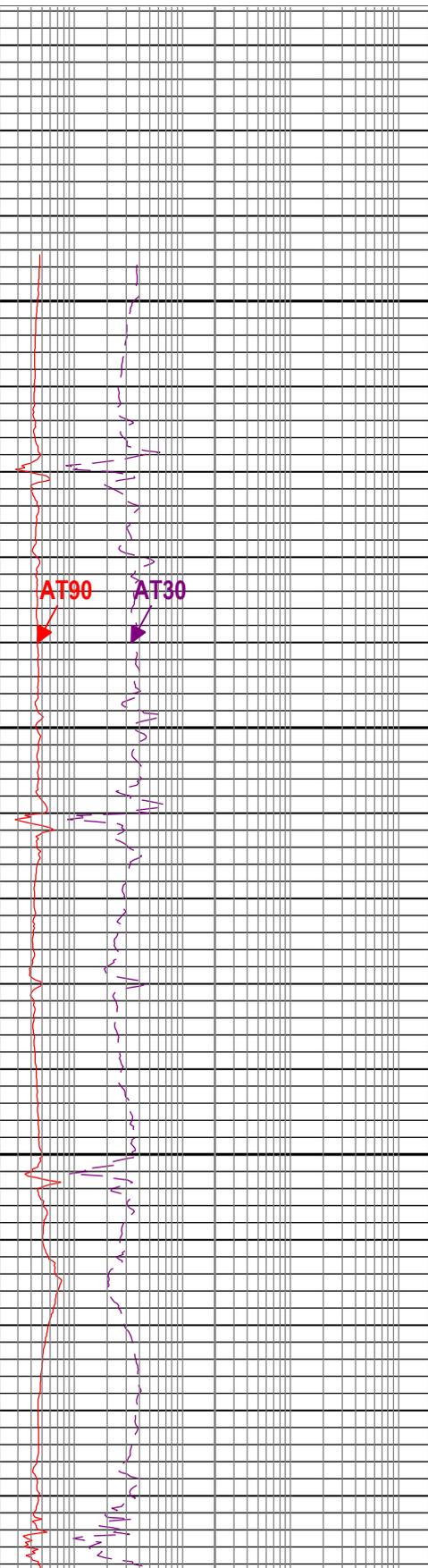
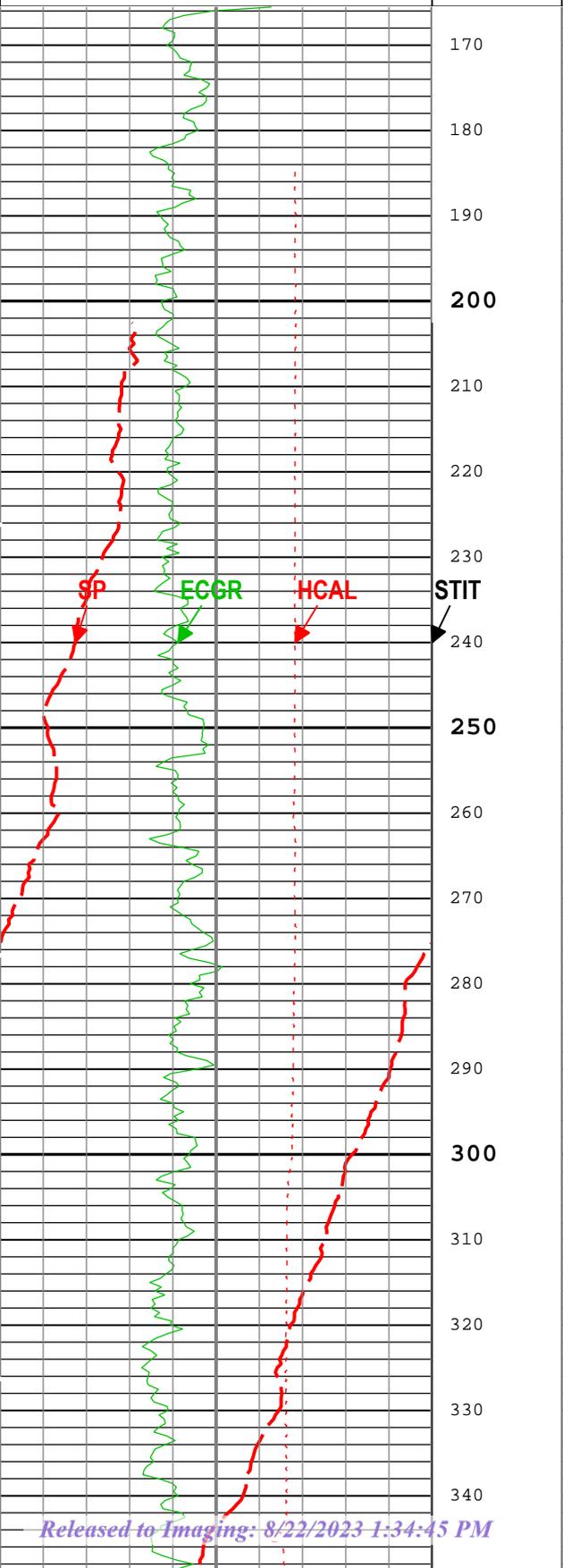
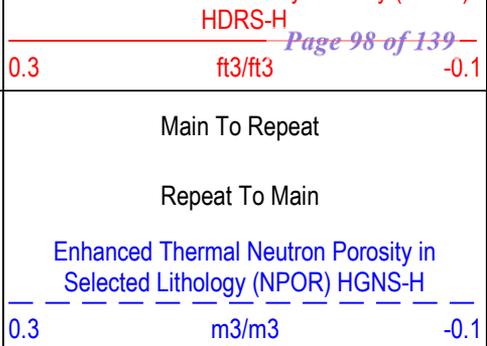
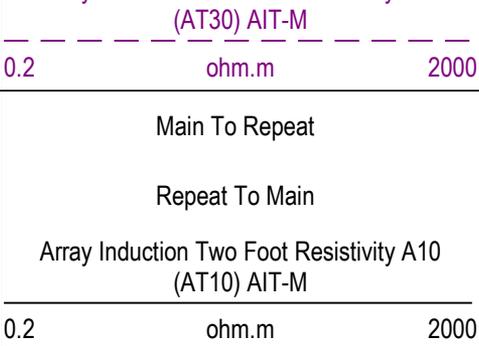
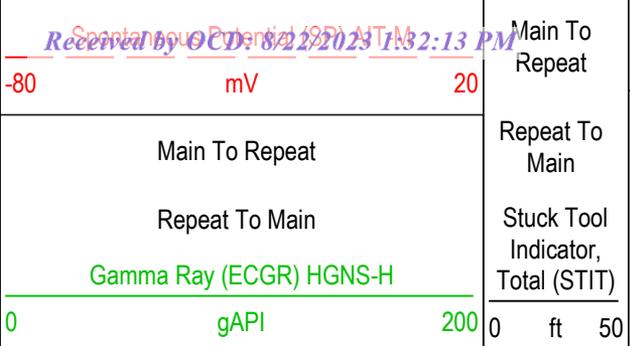
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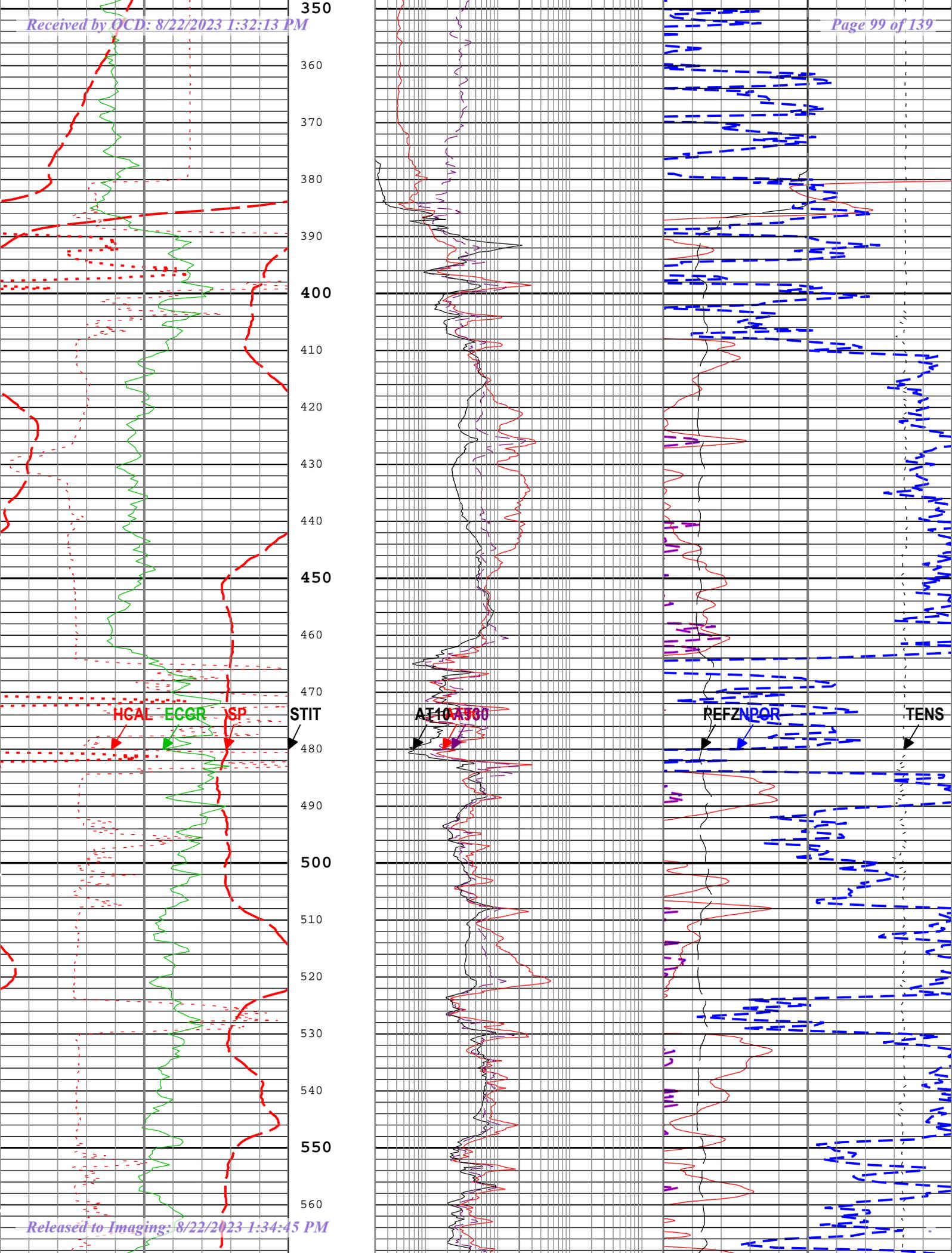
Company:Enduring Resources, LLC Well:North Escavada Unit 2207-16B-WSW
One: Log[4]:Up:S004

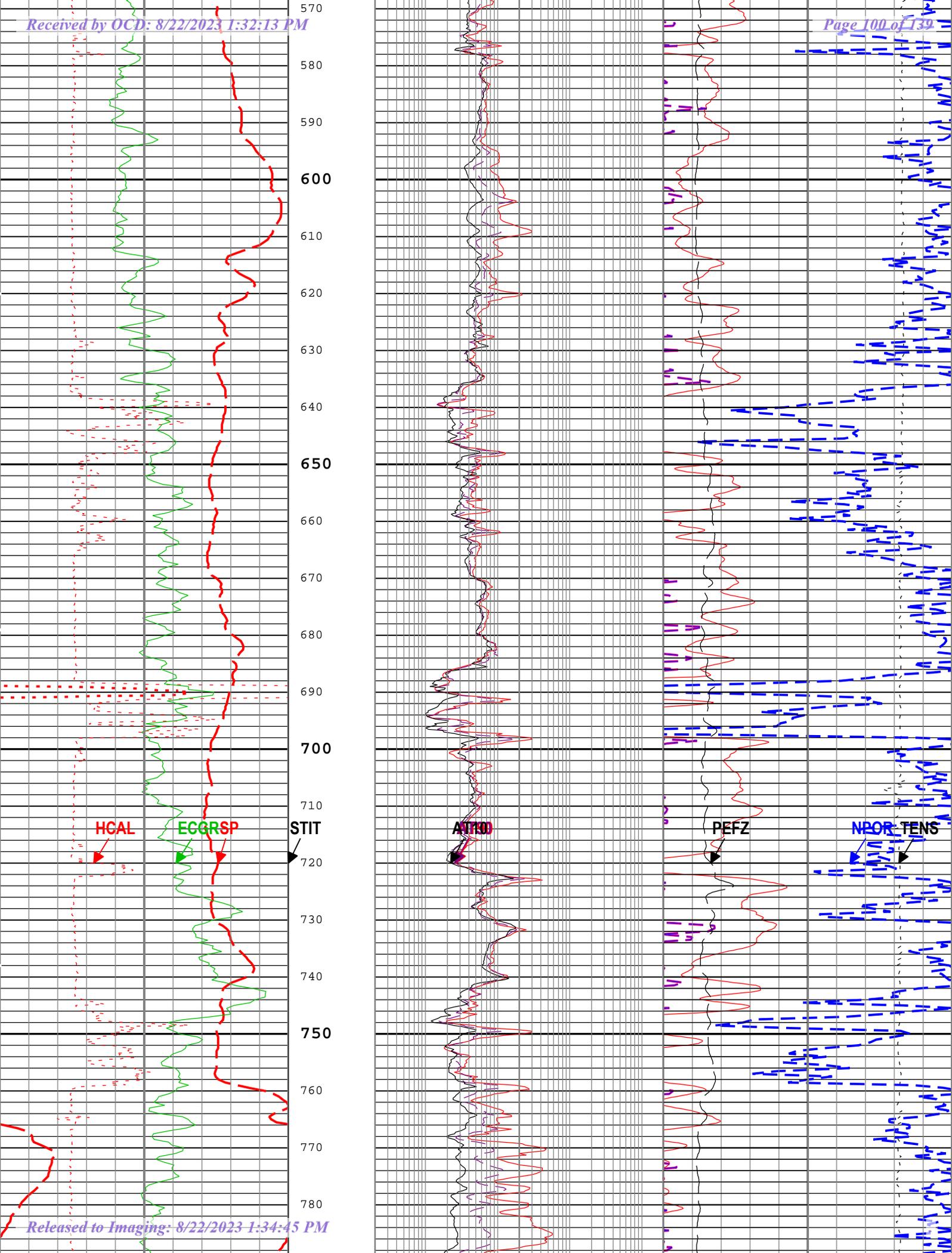
Description: HGNS standard resolution porosities for Platform Express Format: Log (TripleCombo-5 RA) Index Scale: 5 in per 100 ft Index Unit: ft Index Type: Measured Depth Creation Date: 02-Oct-2018 17:51:13

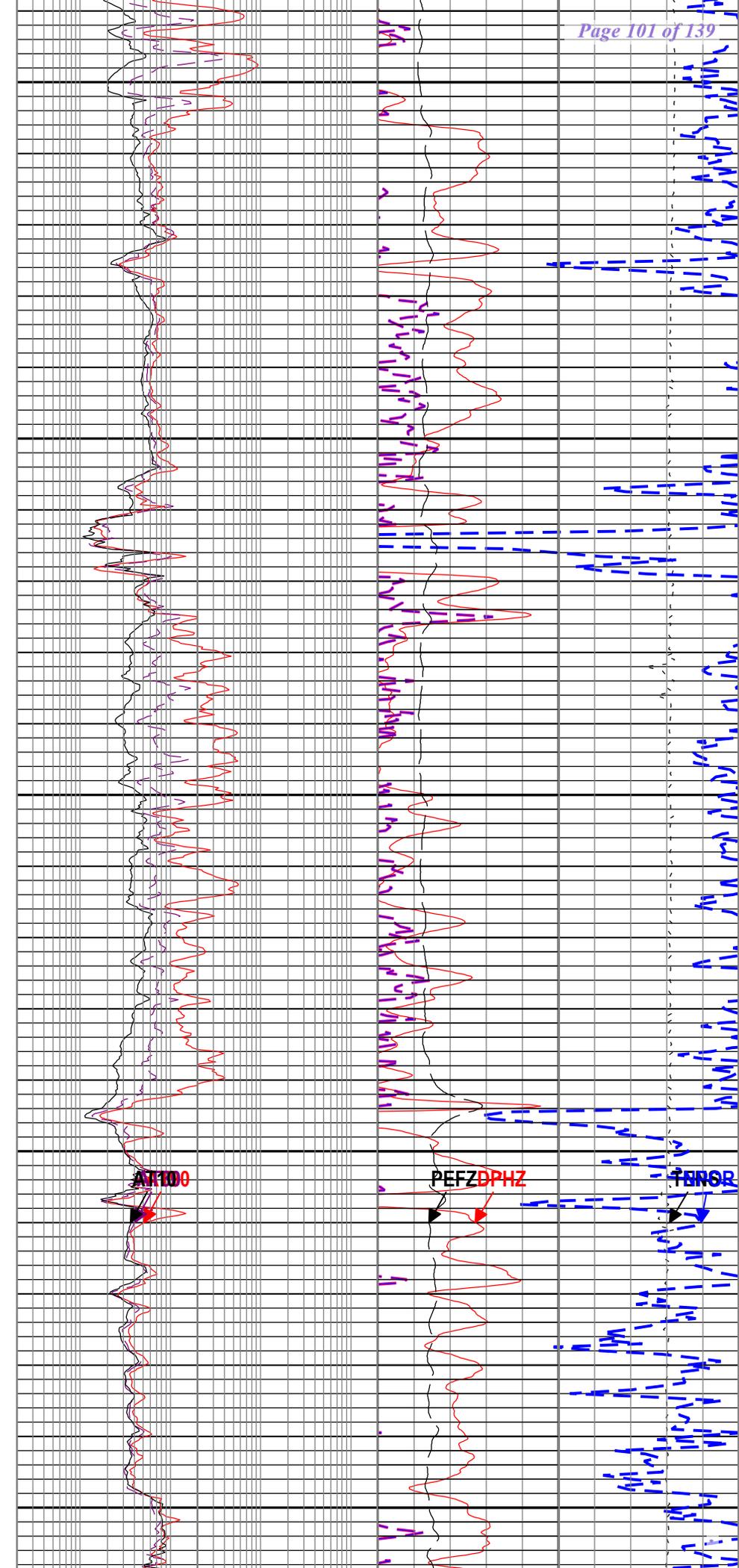
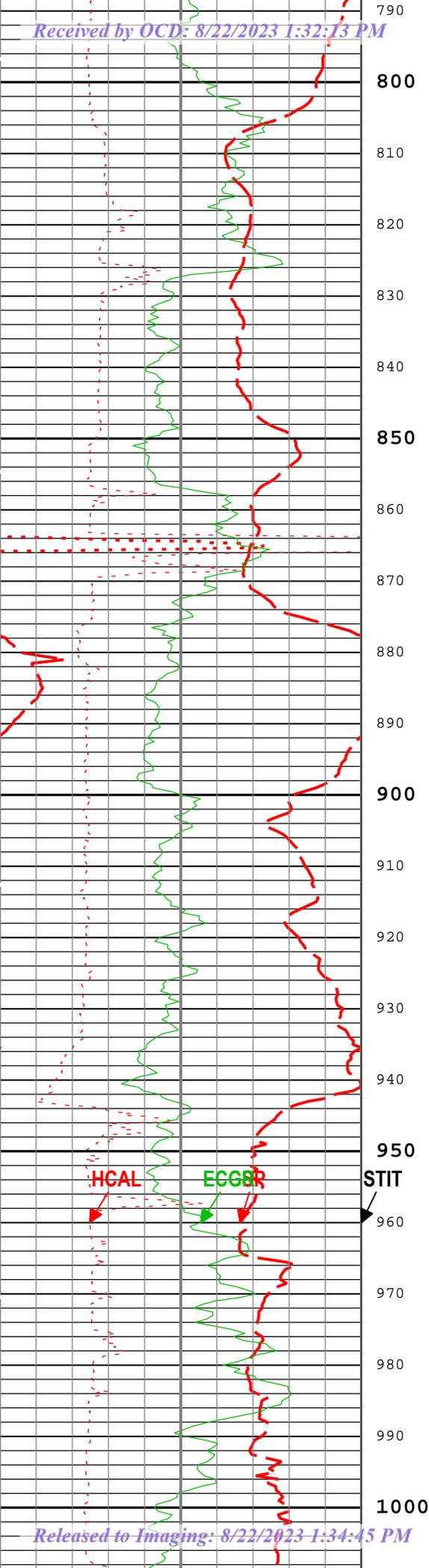
TIME_1900 - Time Marked every 60.00 (s)

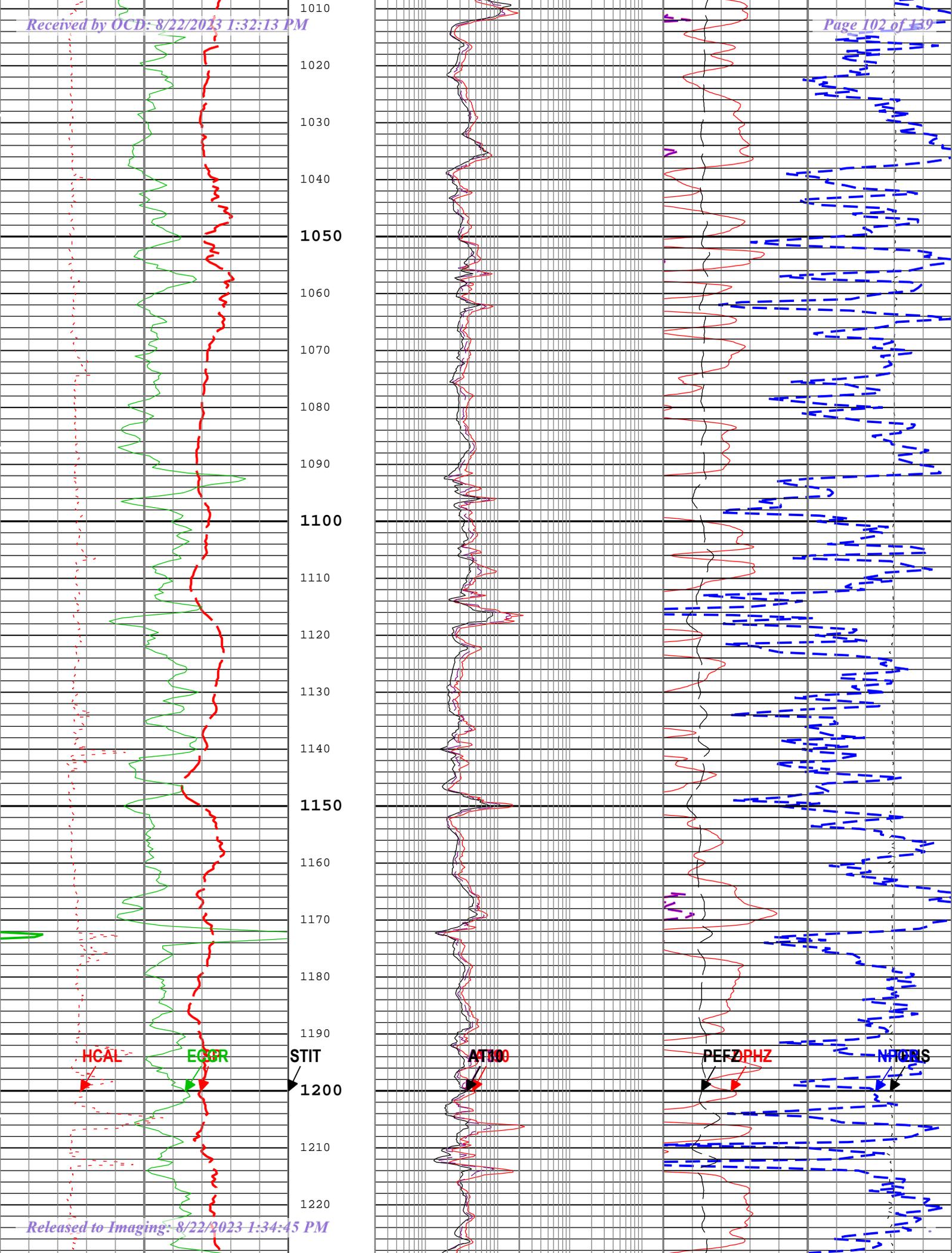
		Main To Repeat Repeat To Main Standard Resolution Formation Photoelectric Factor (PEFZ) HDRS-H 0 10
Main To Repeat Repeat To Main Caliper (HCAL) HDRS-H 6 in 16	Main To Repeat Repeat To Main Array Induction Two Foot Resistivity A90 (AT90) AIT-M 0.2 ohm.m 2000	Main To Repeat Repeat To Main Cable Tension (TENS) 5000 lbf 0
Main To Repeat Repeat To Main Released to Imaging: 8/22/2023 1:34:45 PM	Main To Repeat Repeat To Main Array Induction Two Foot Resistivity A30	Main To Repeat Repeat To Main Standard Resolution Density Porosity (DPHZ)

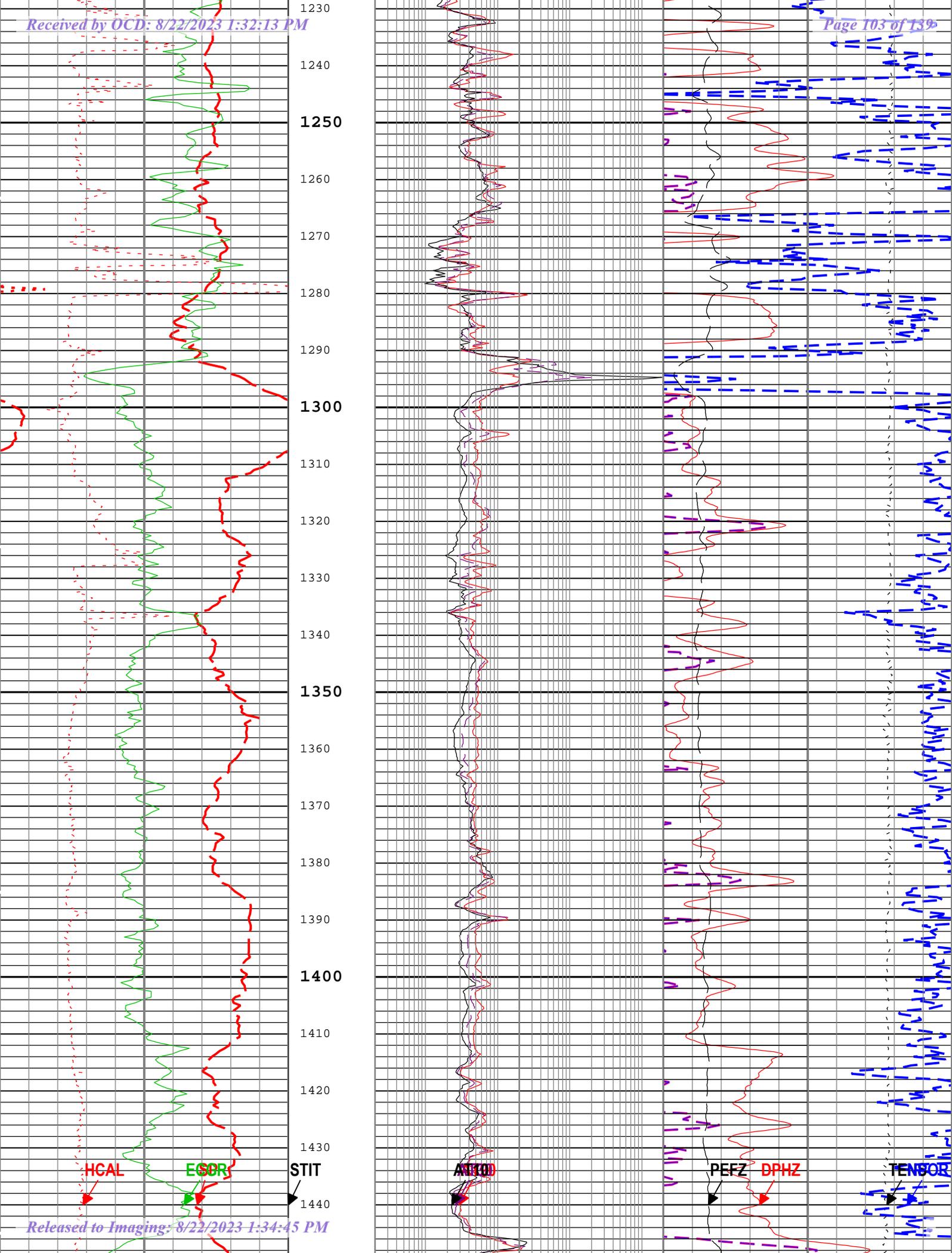


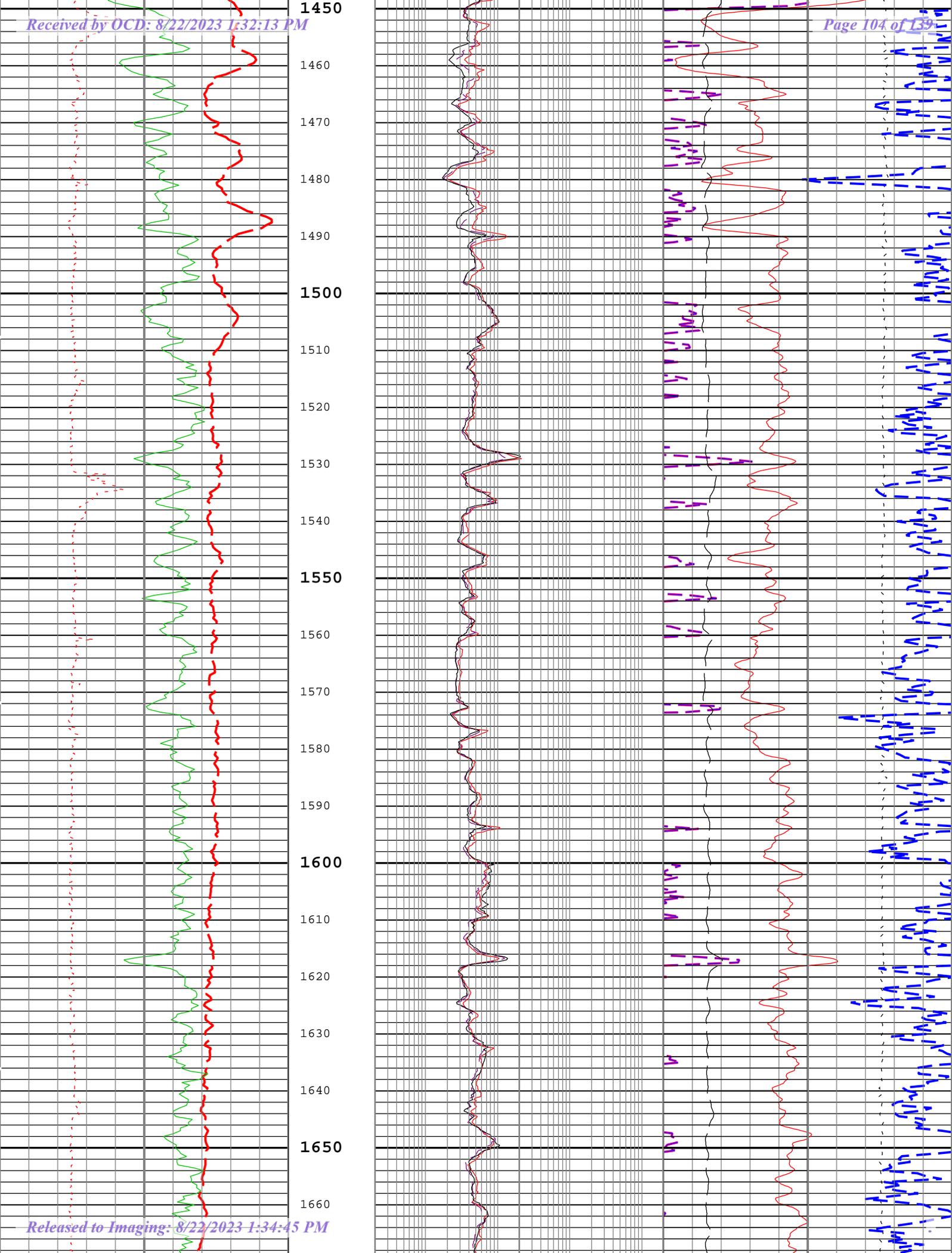


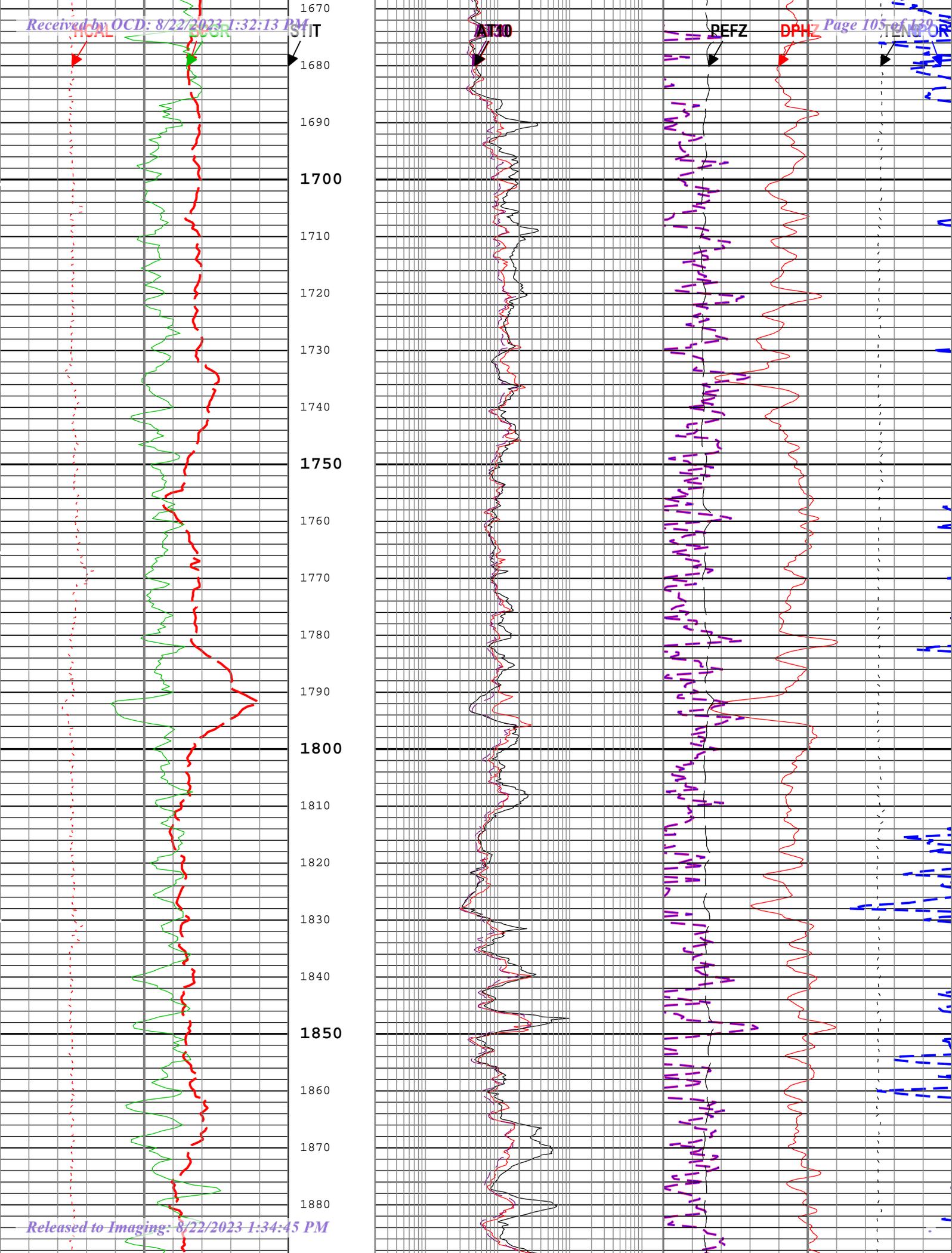


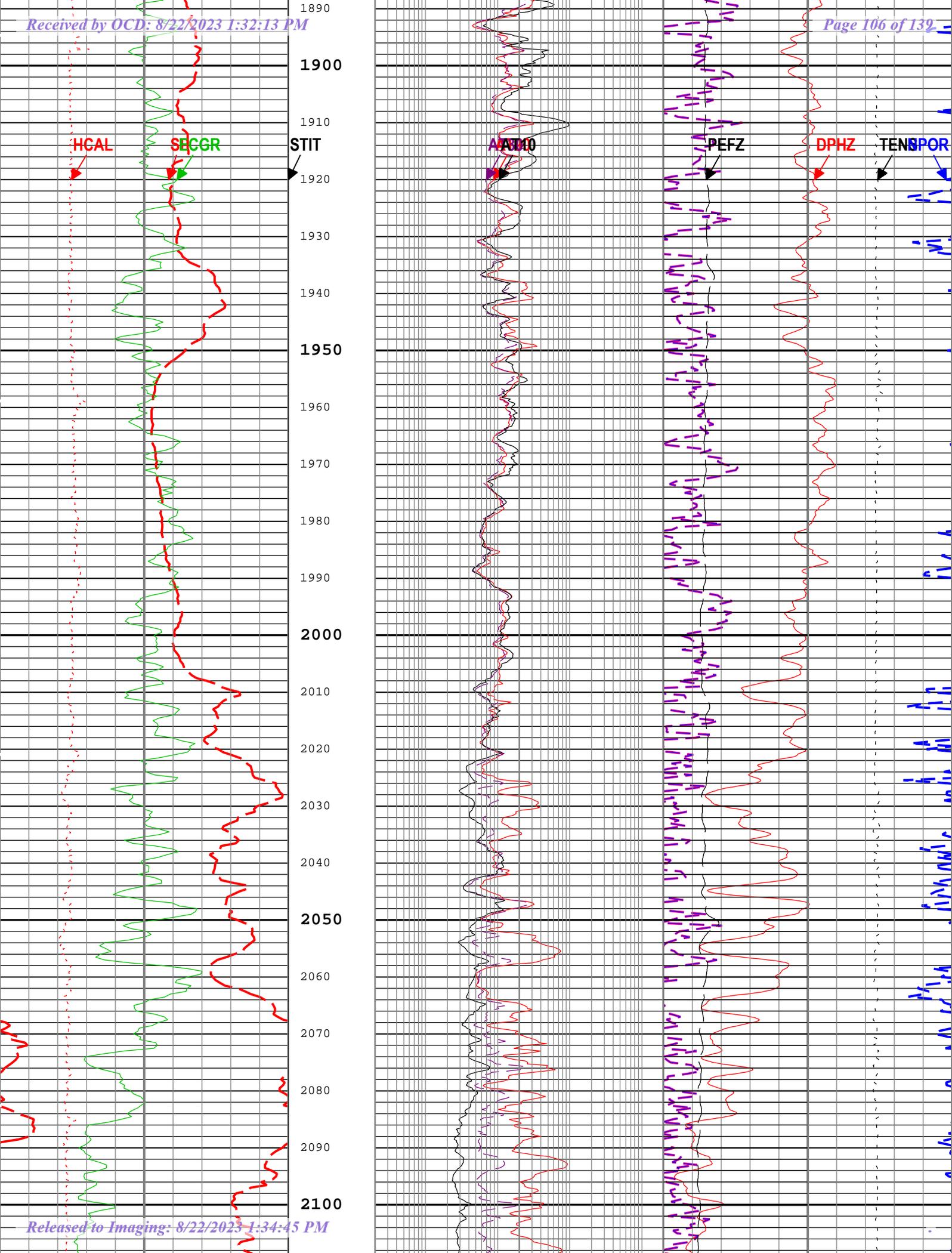


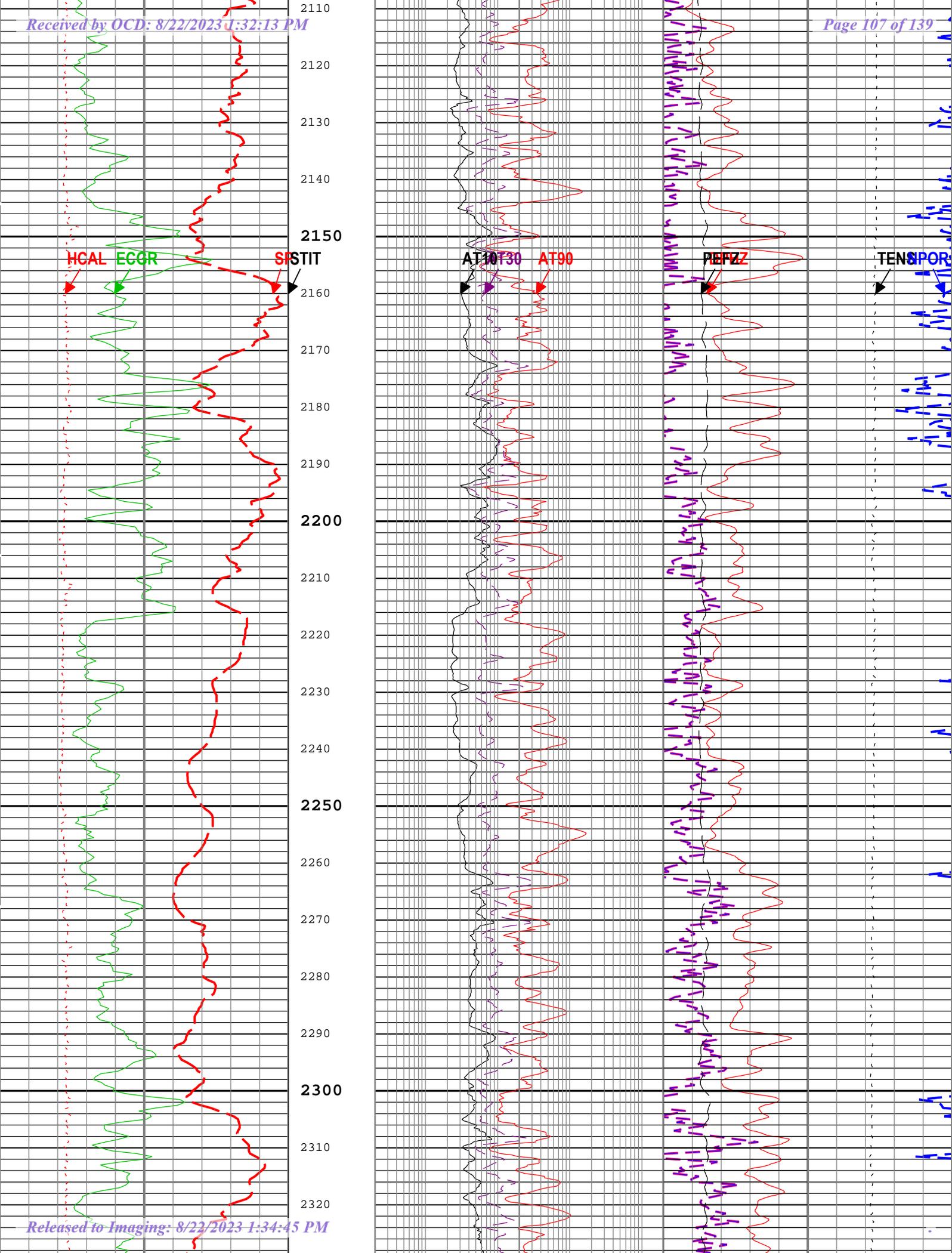


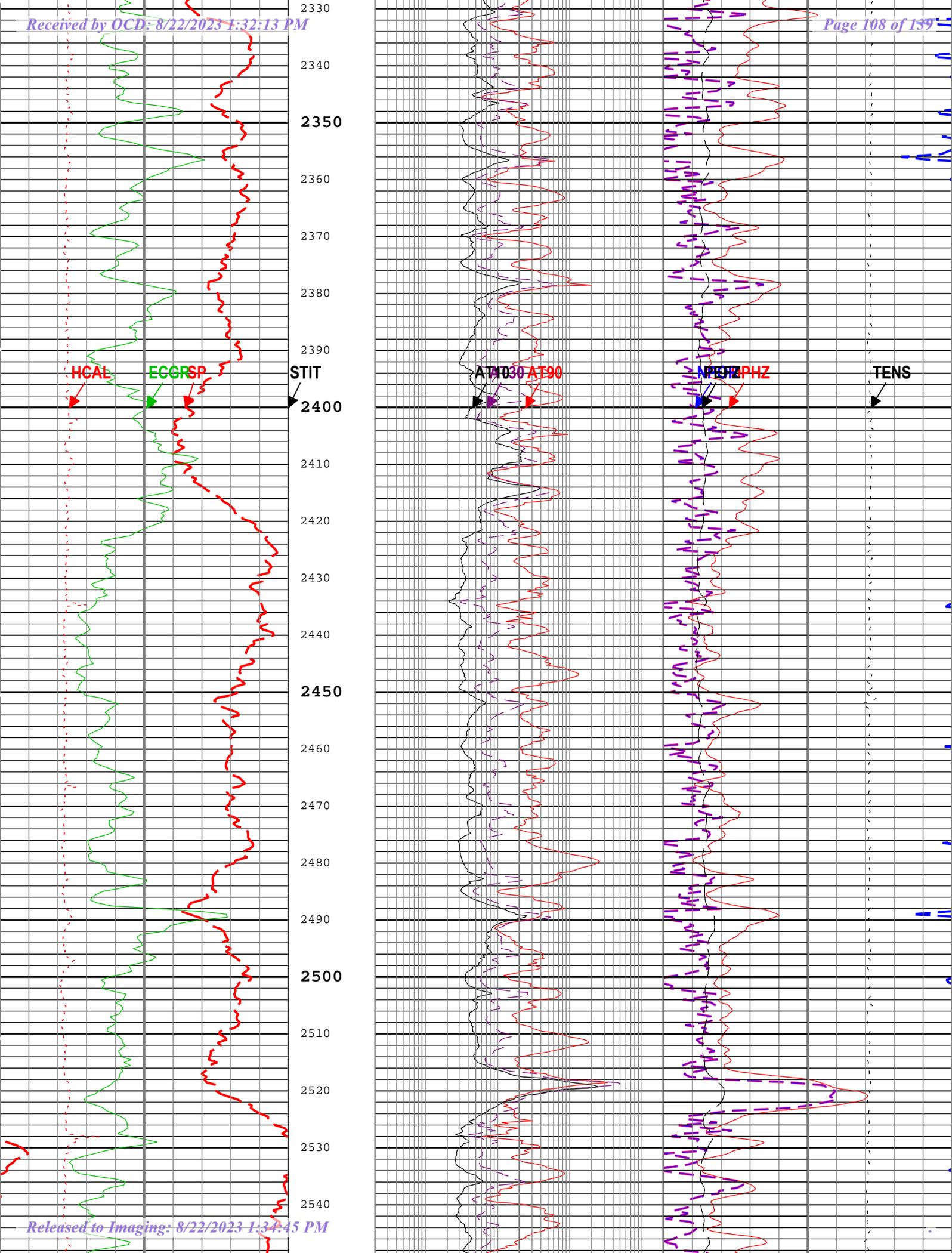


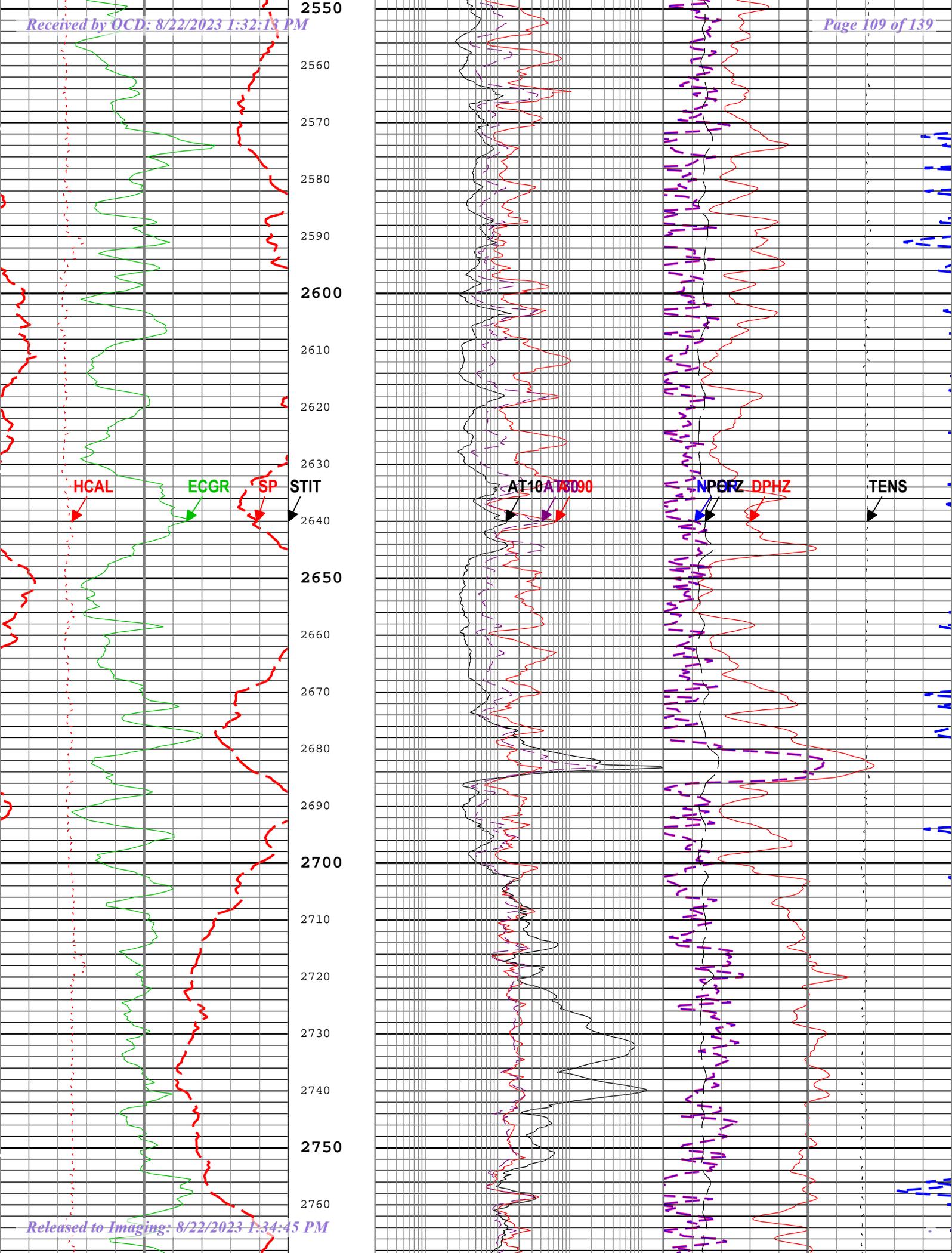


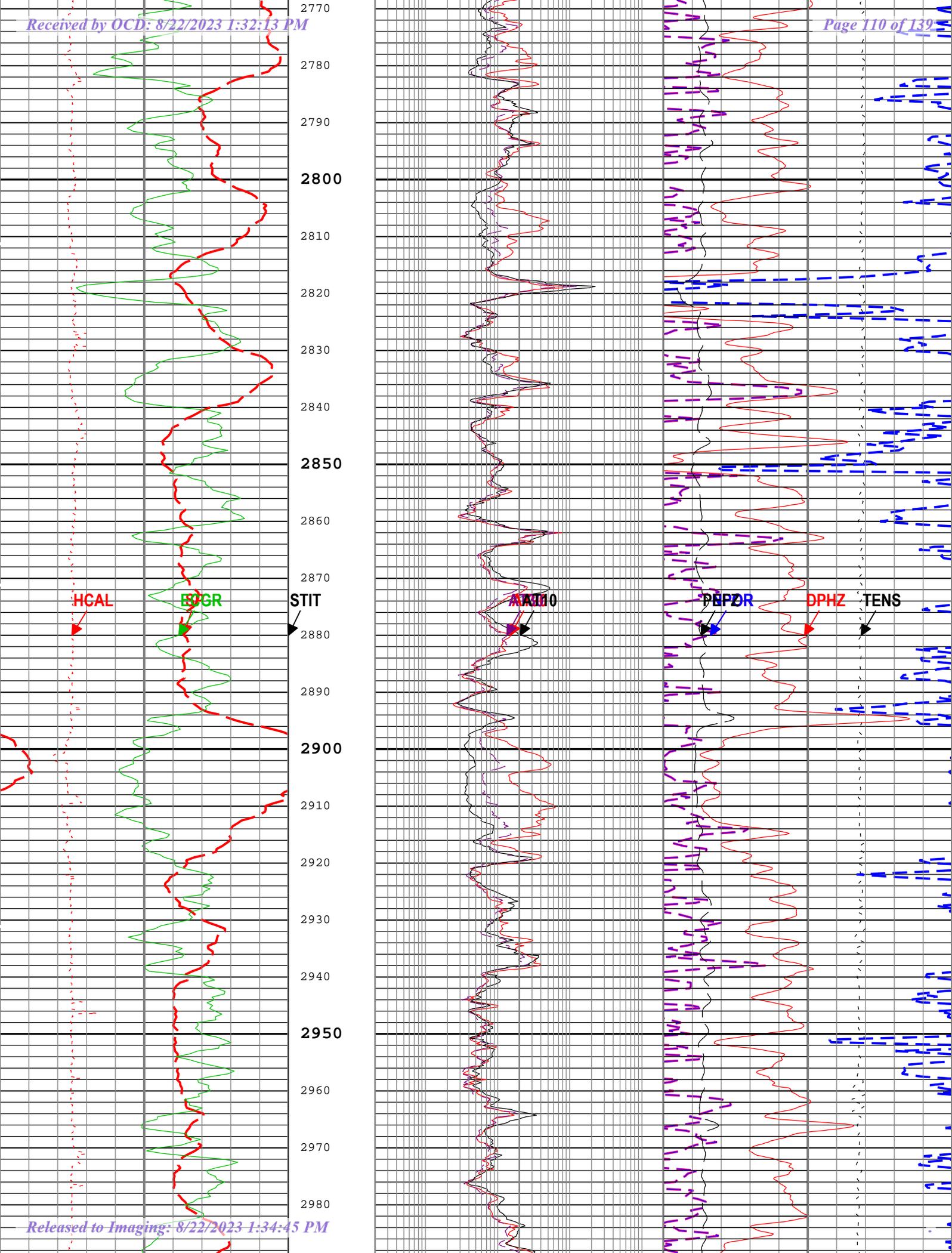


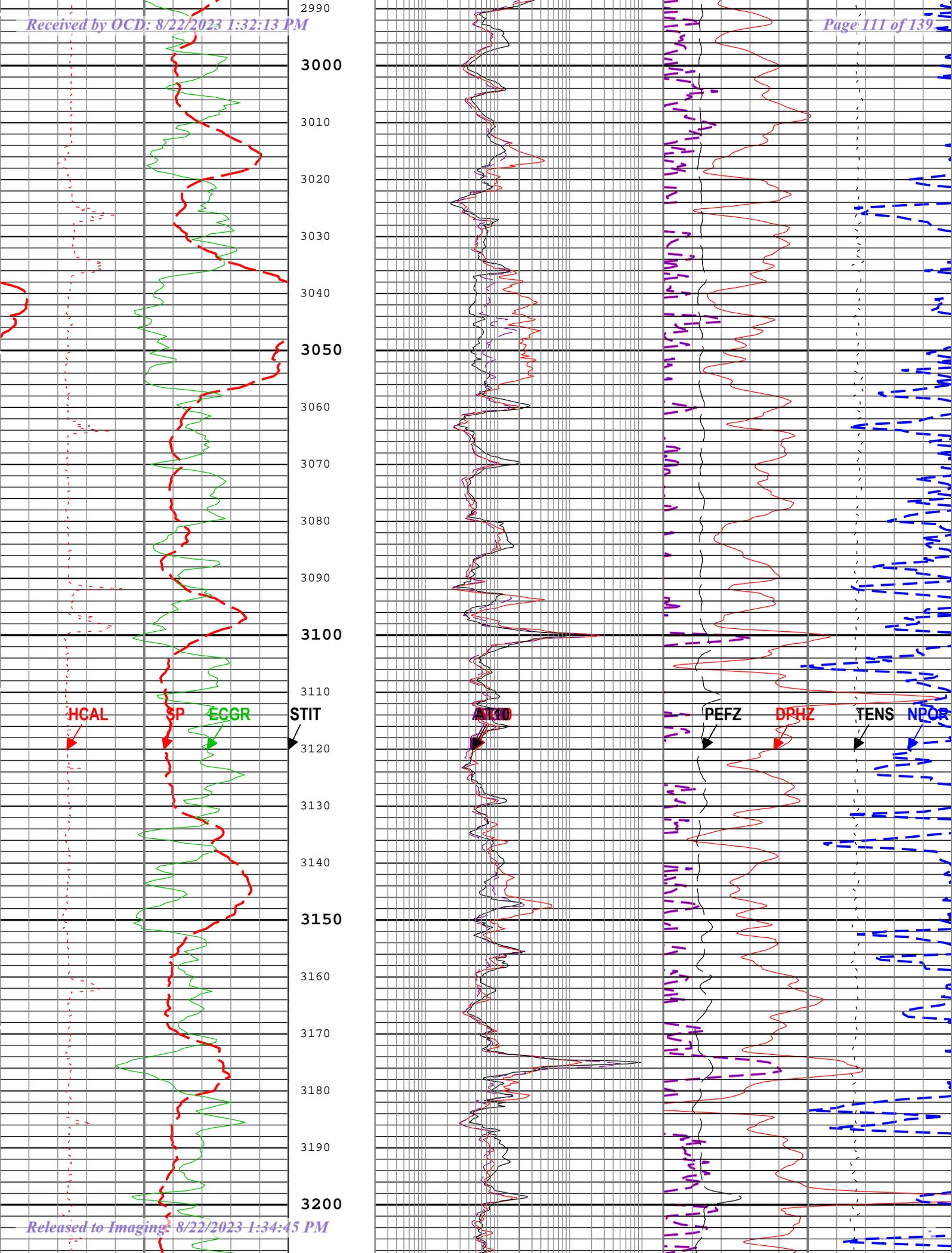


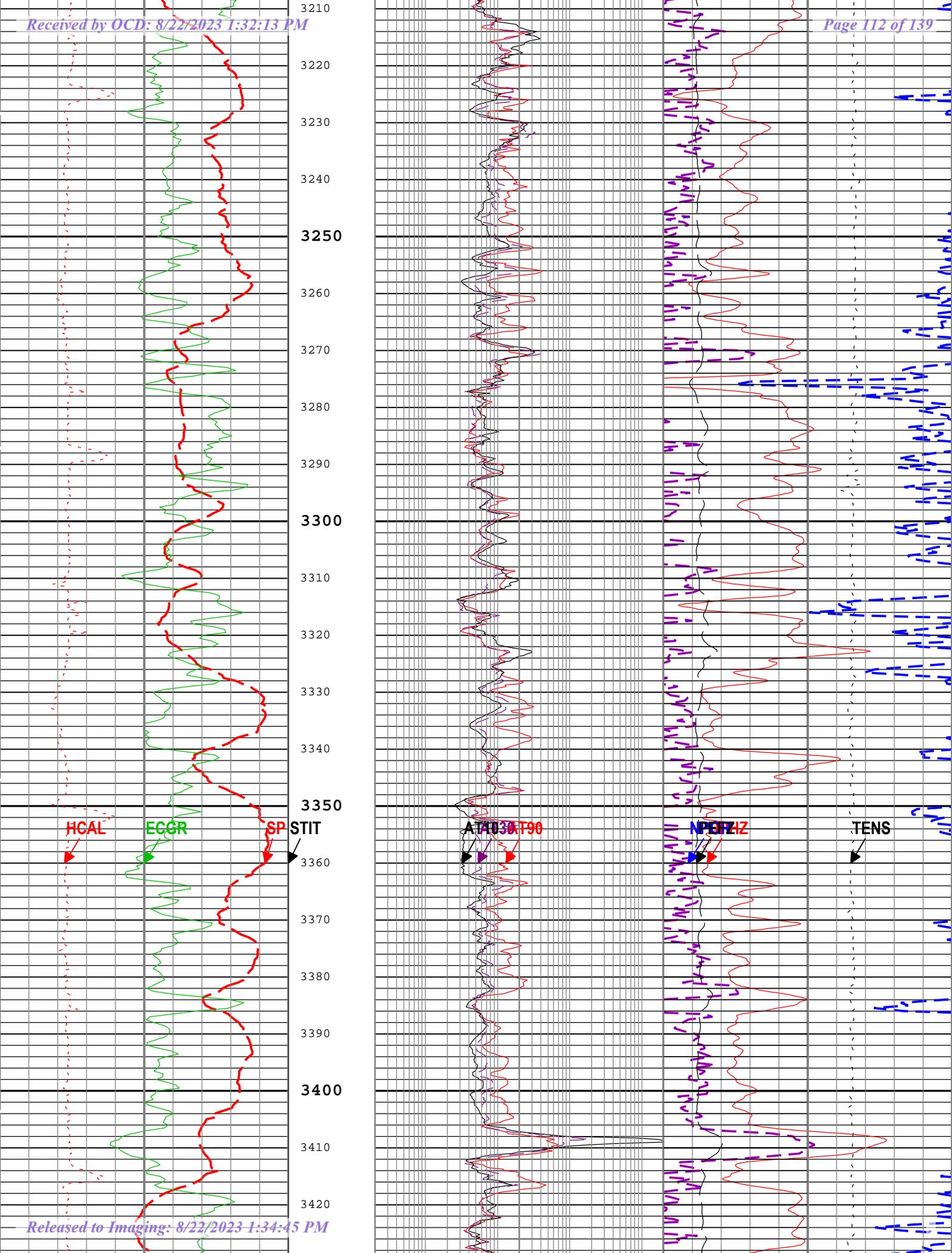


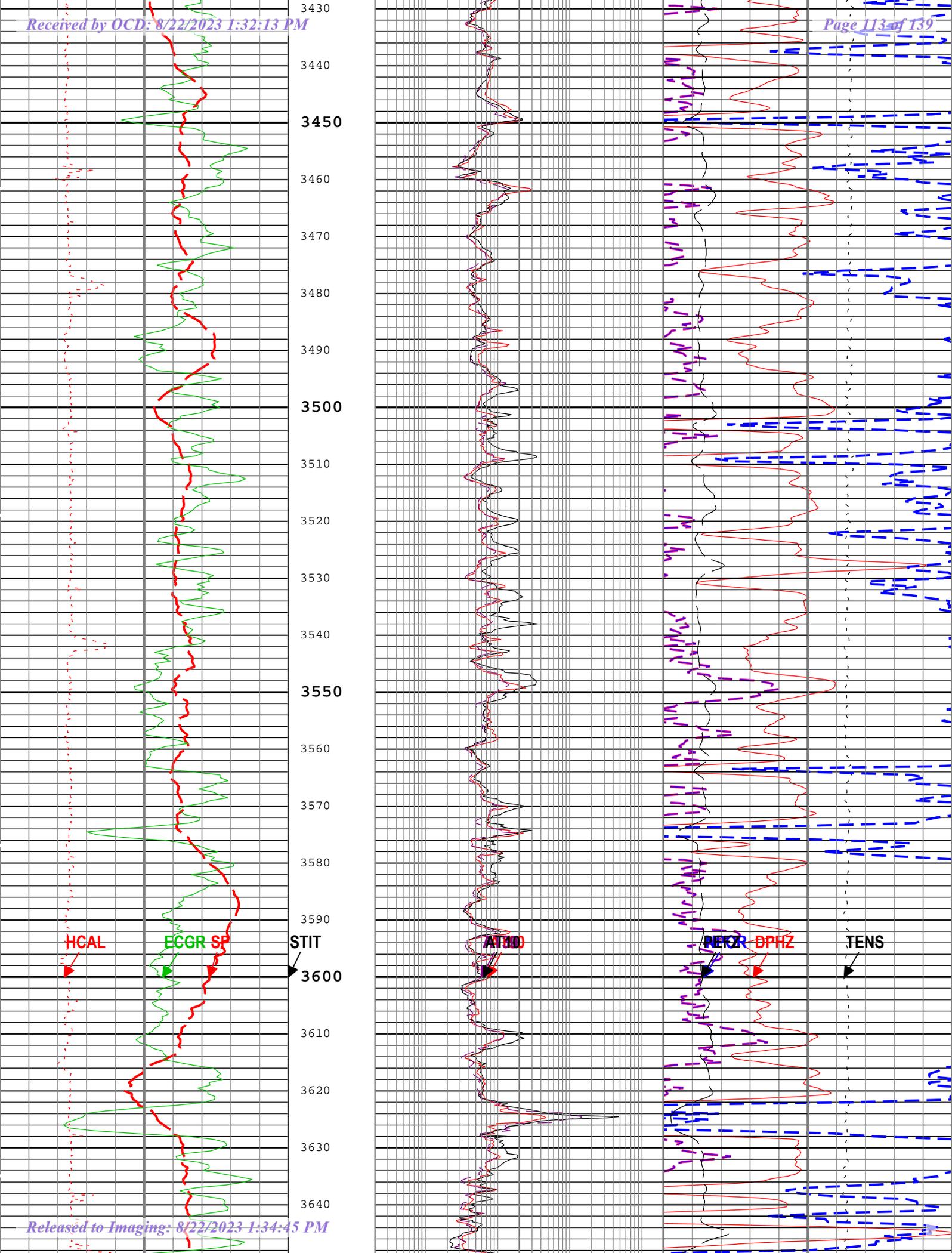


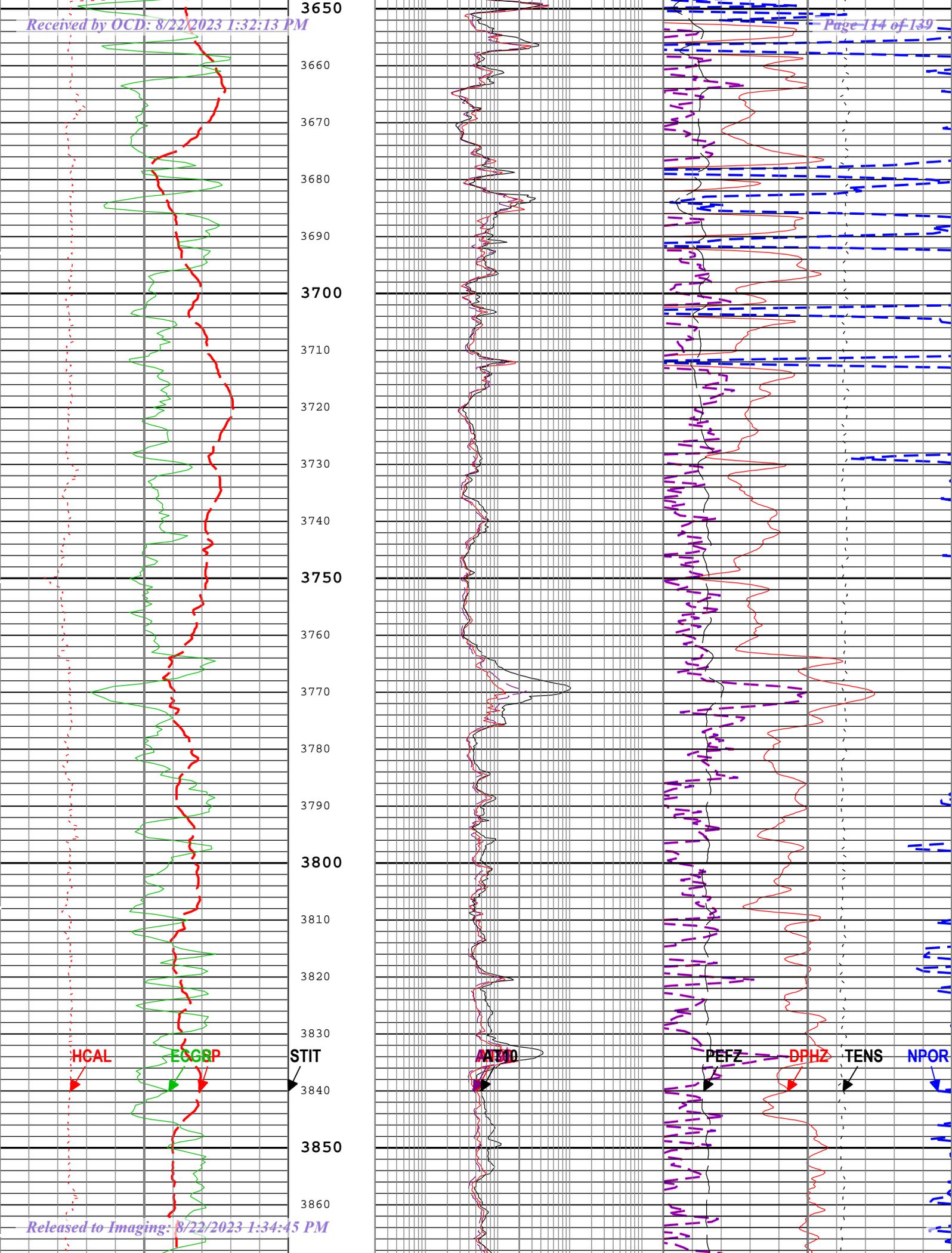


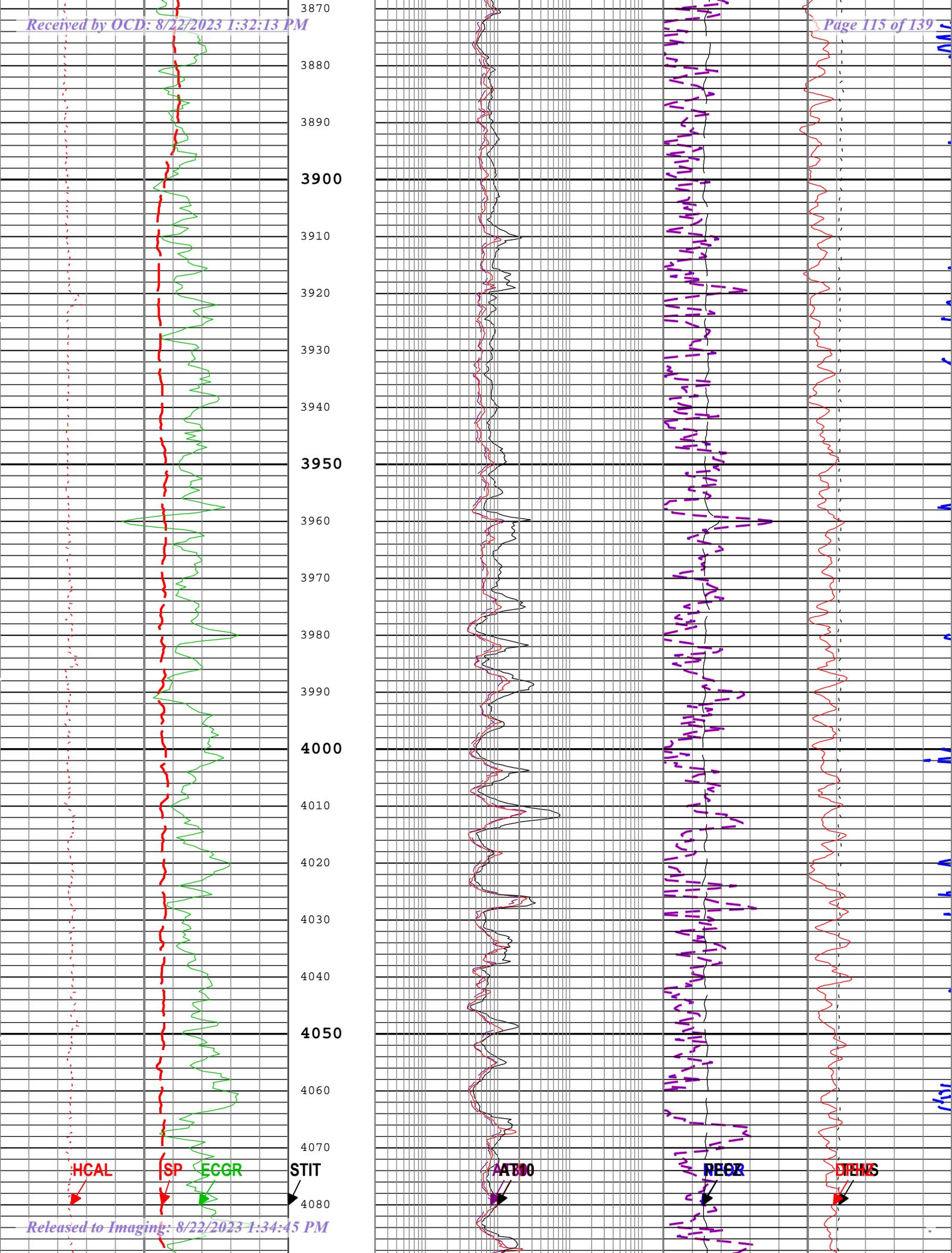


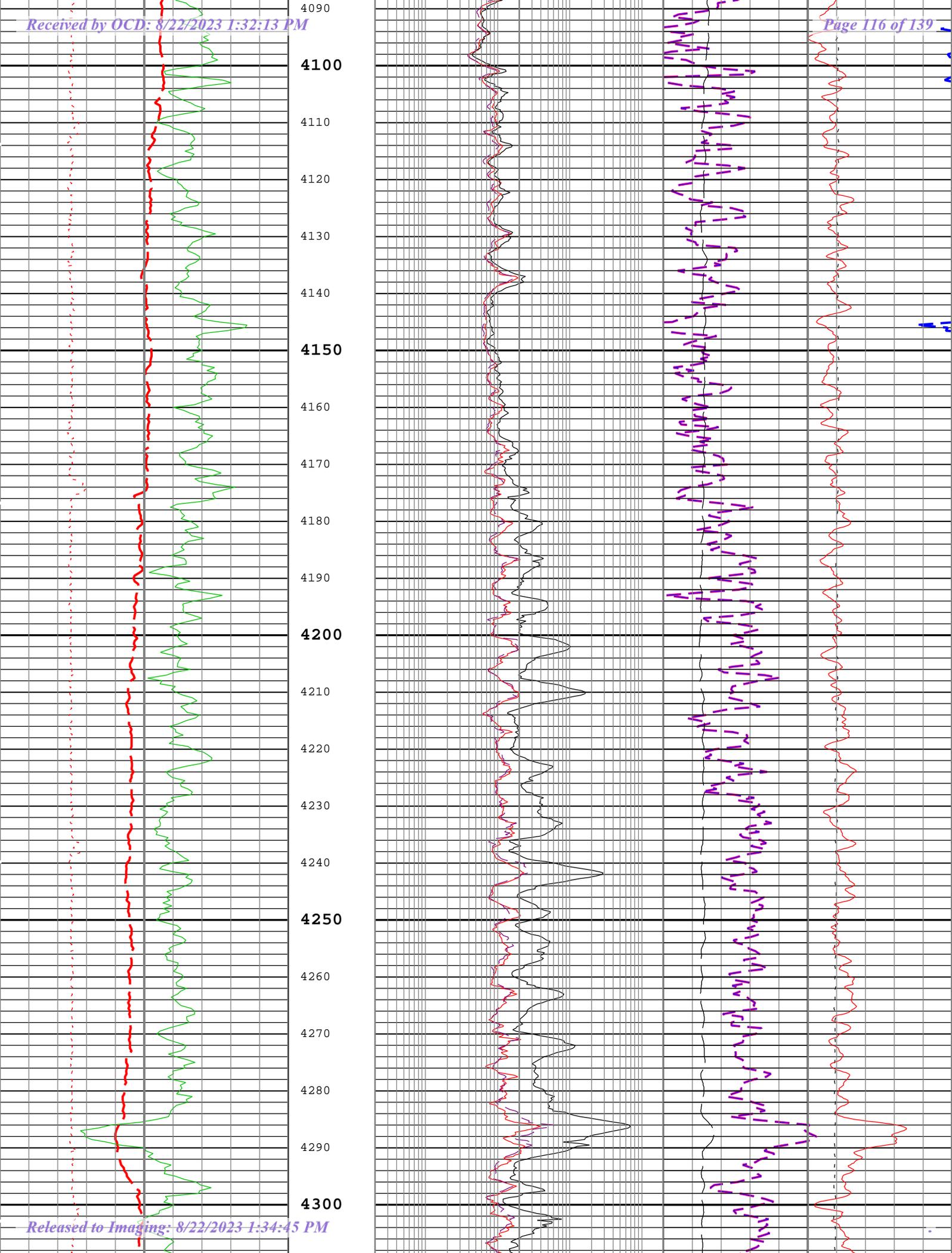




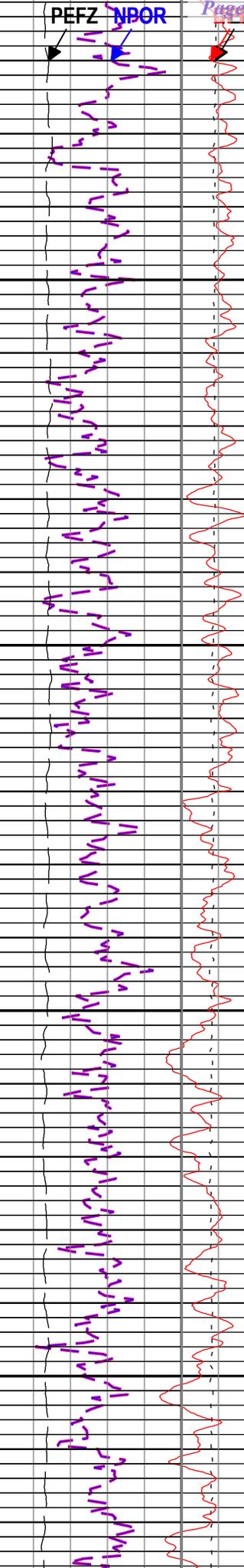
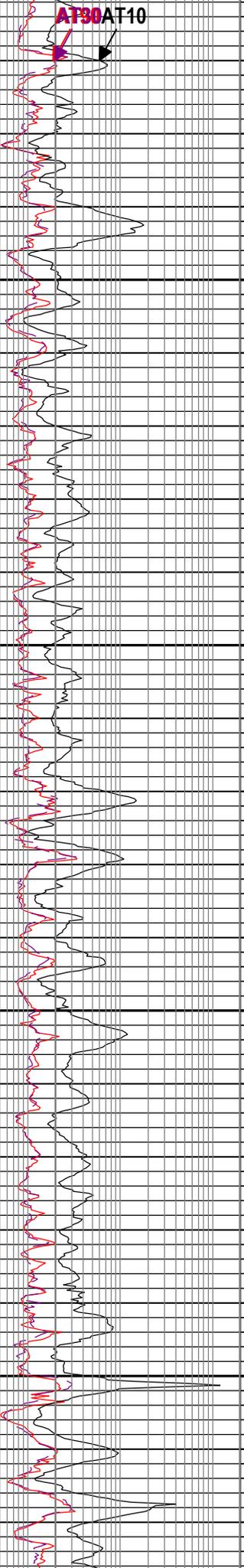
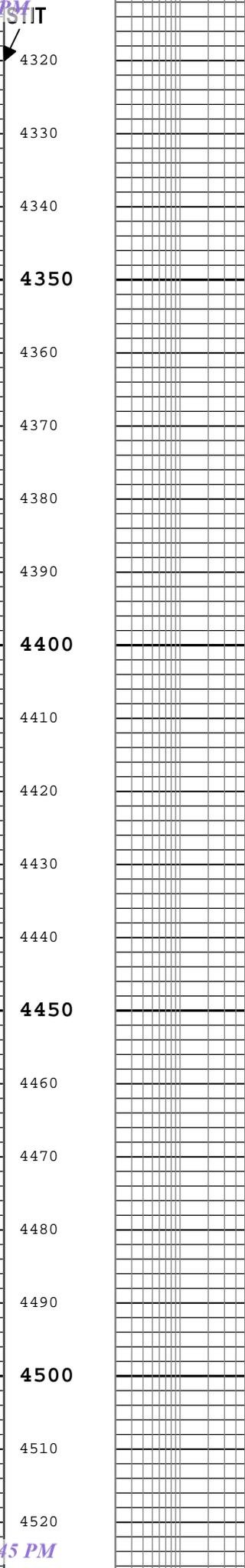
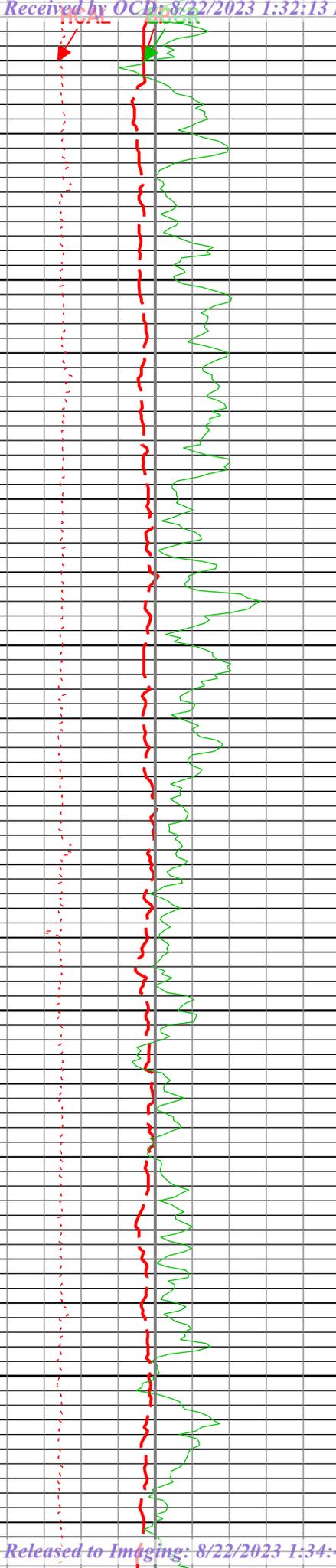


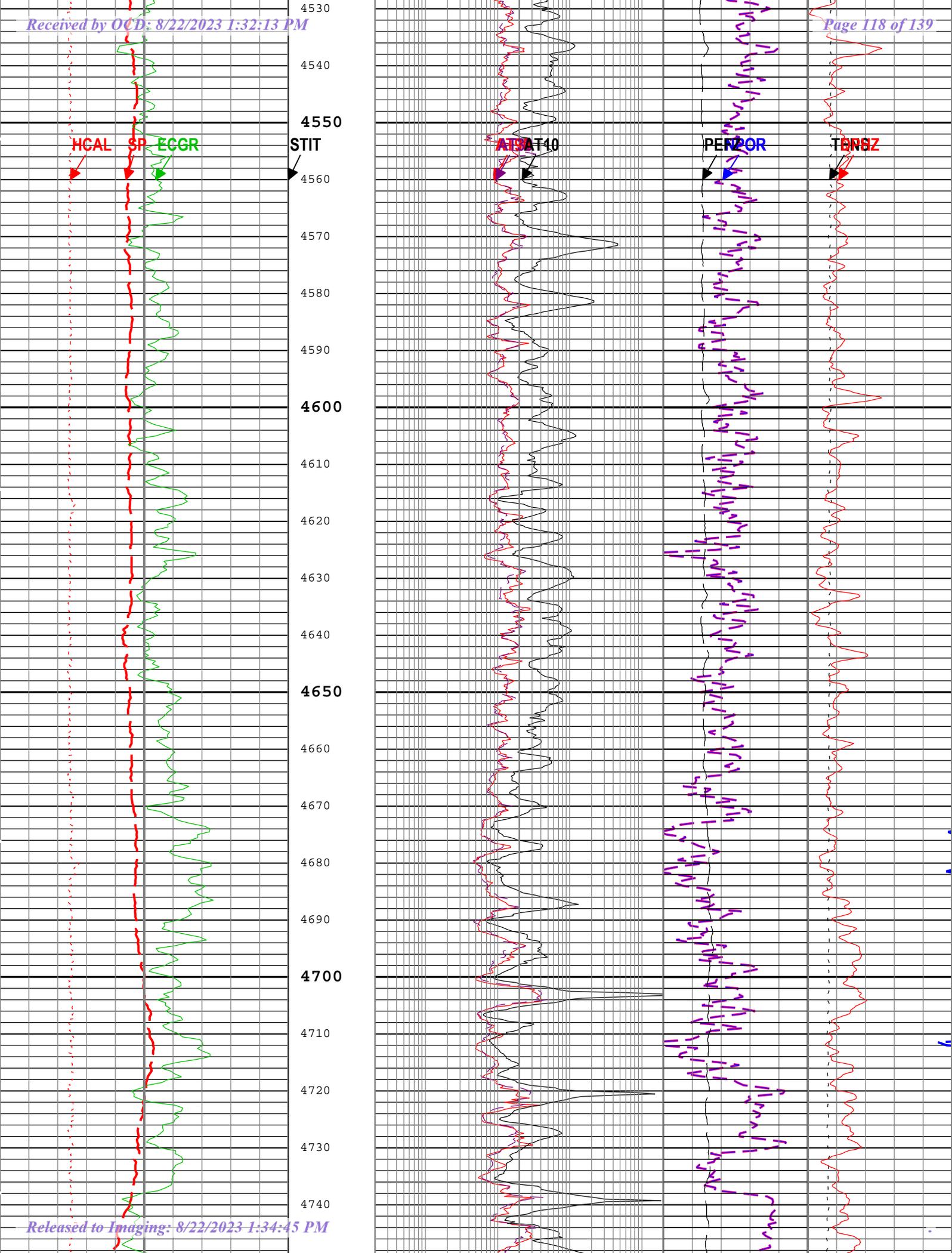


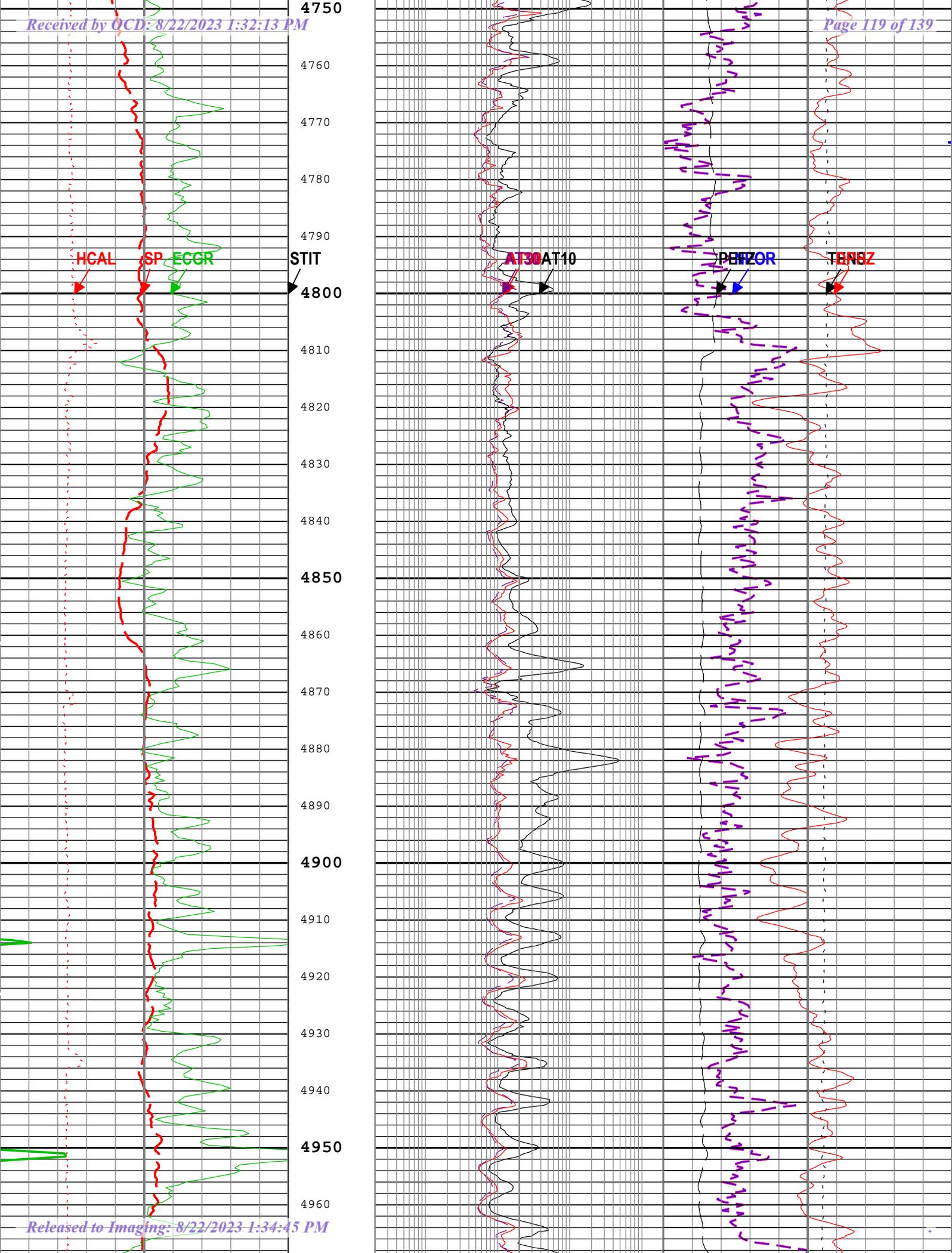


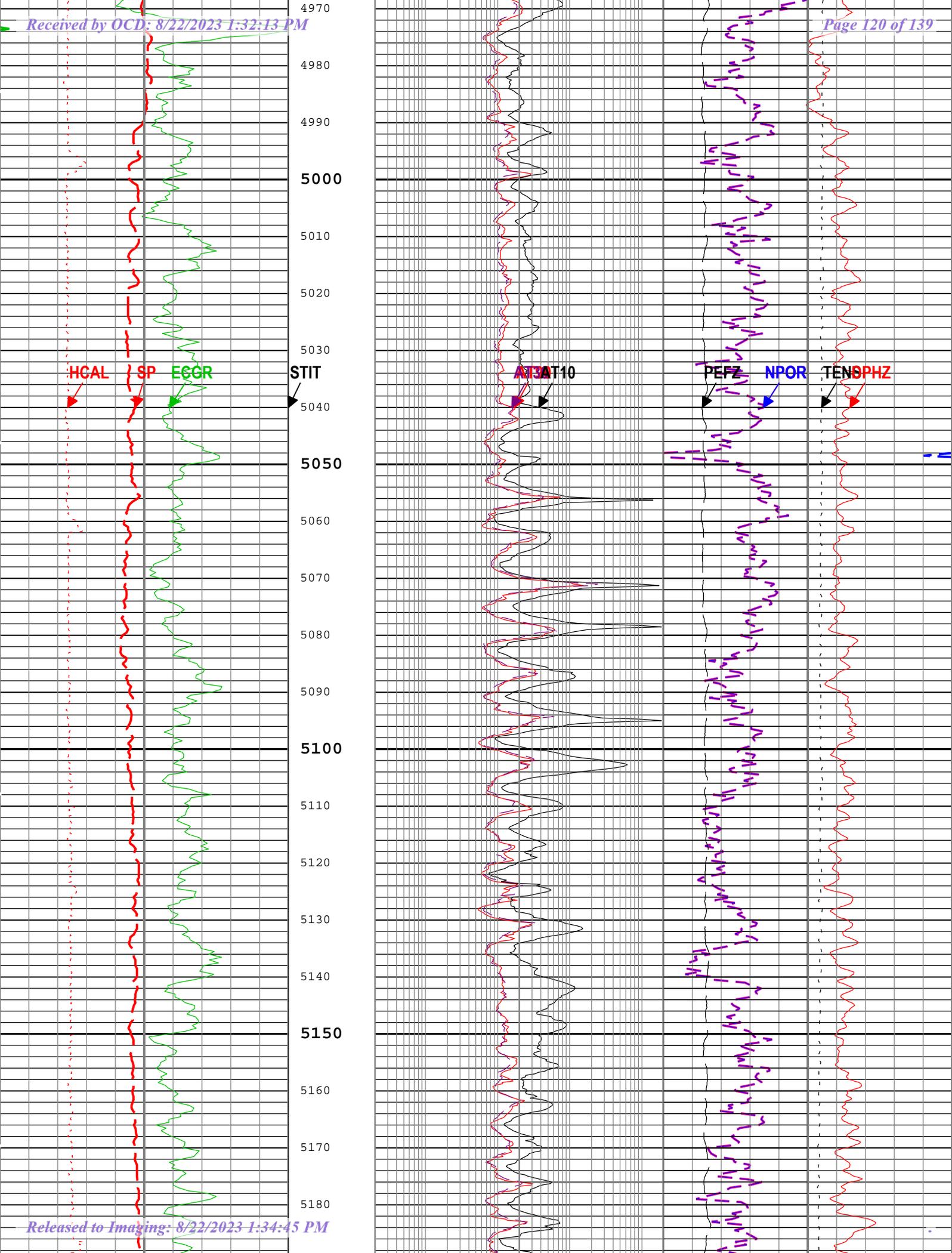


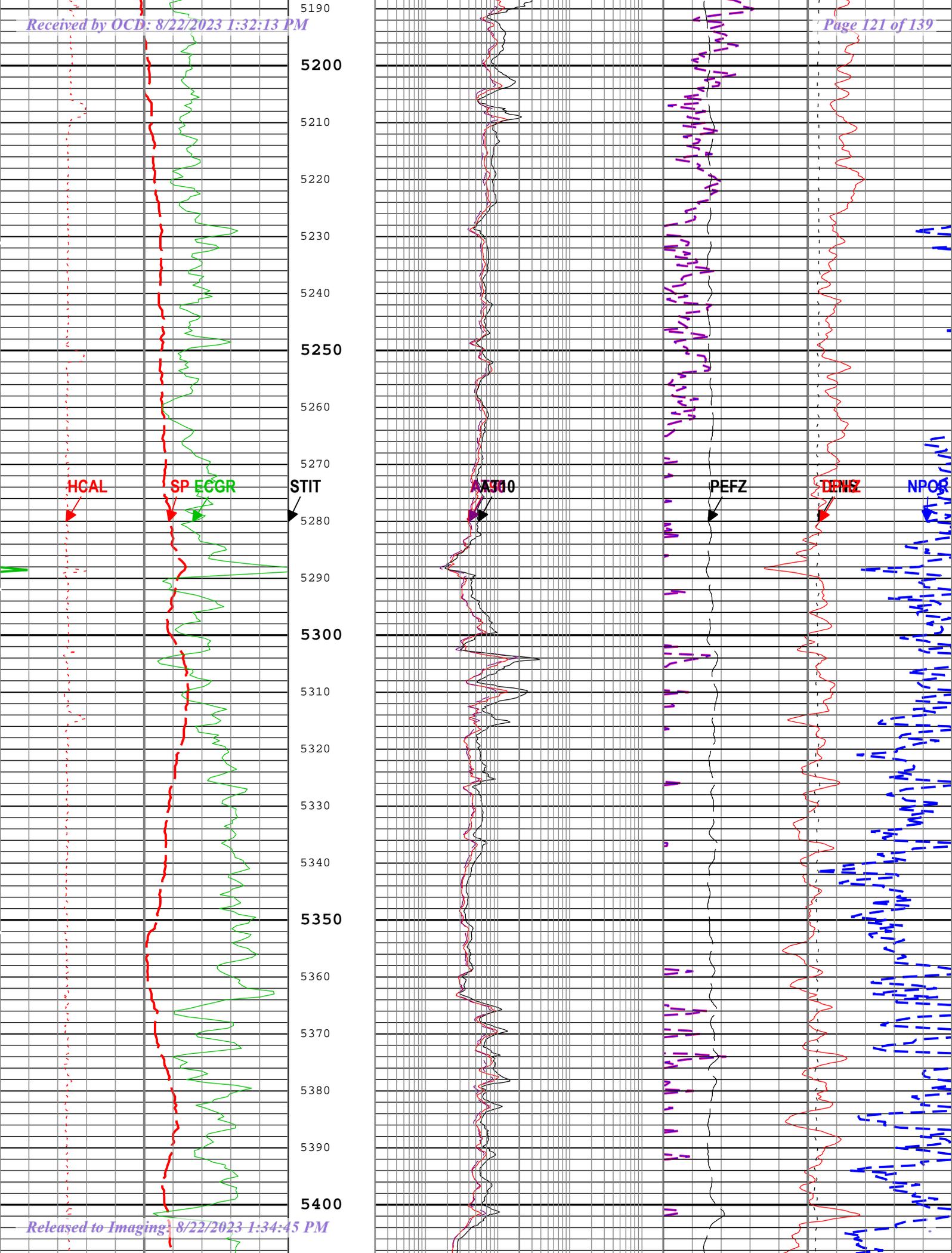
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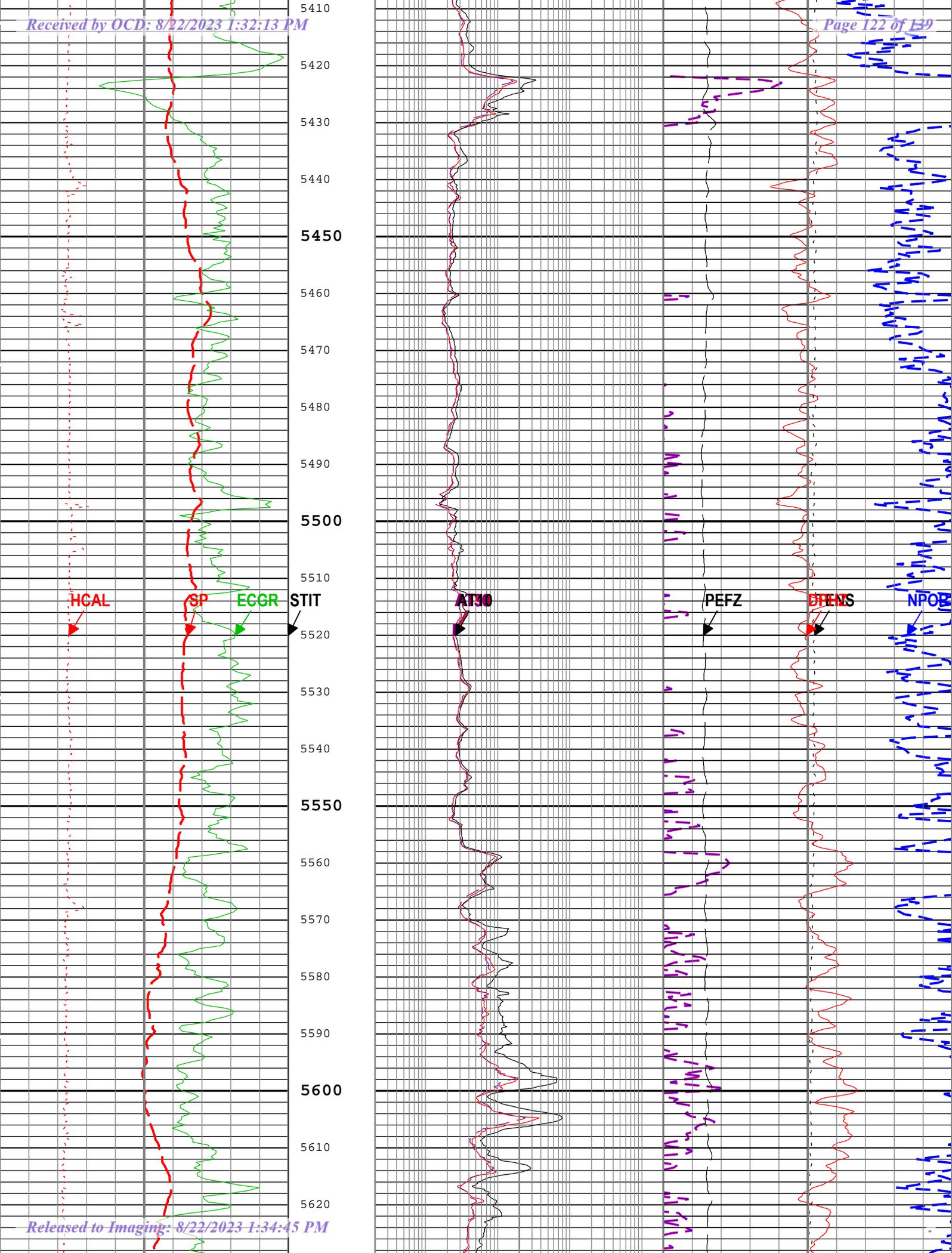












HCAL

SP

ECGR

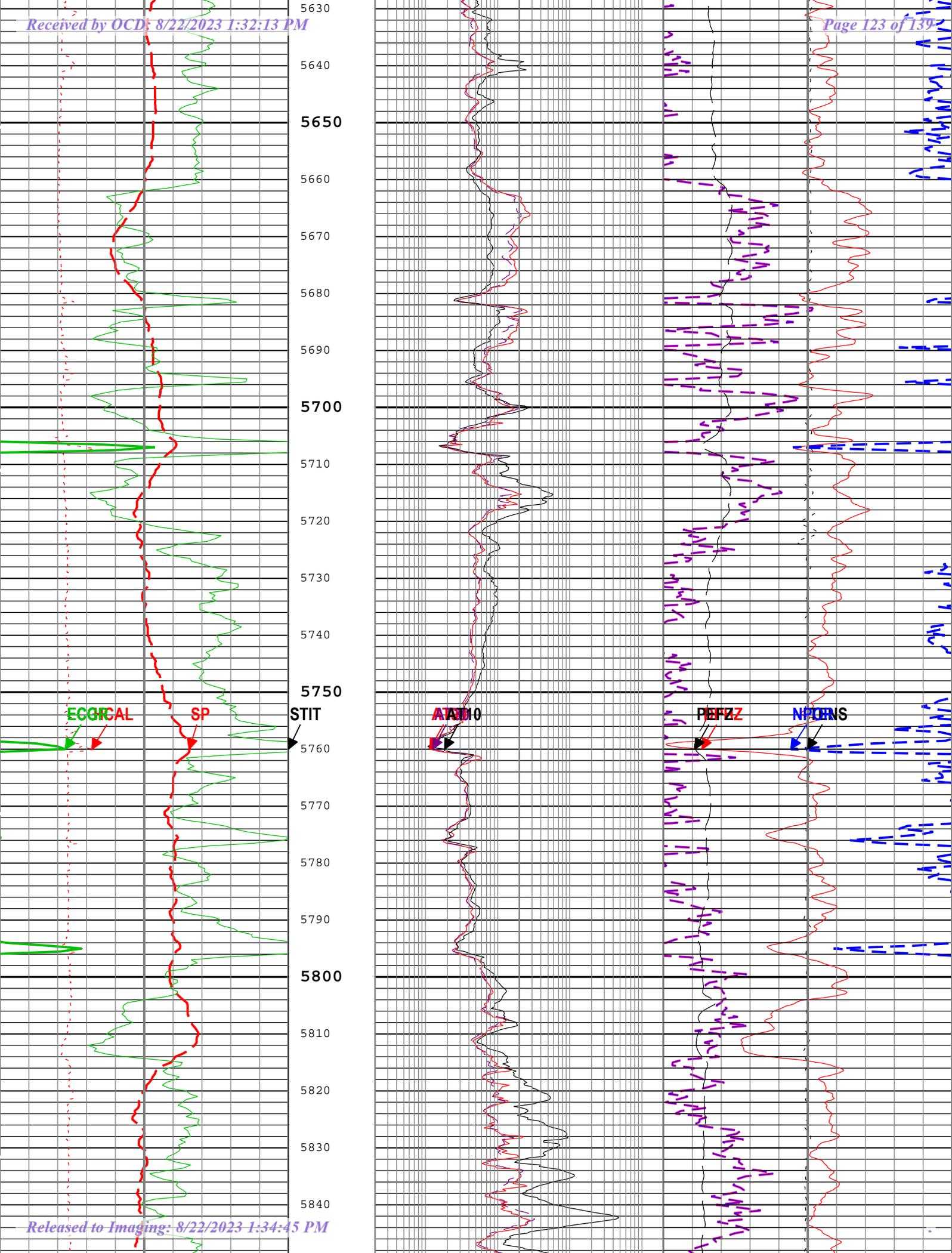
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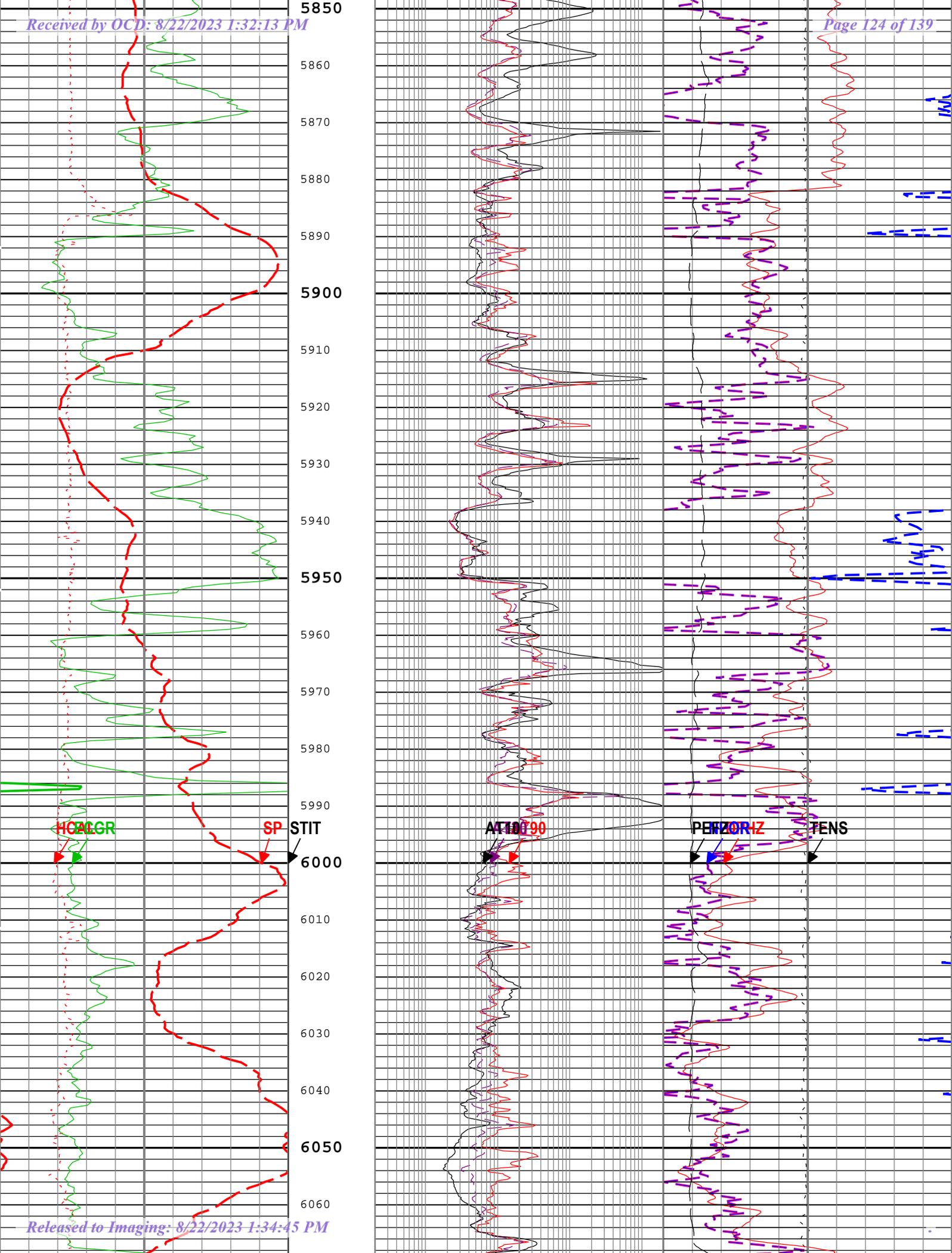
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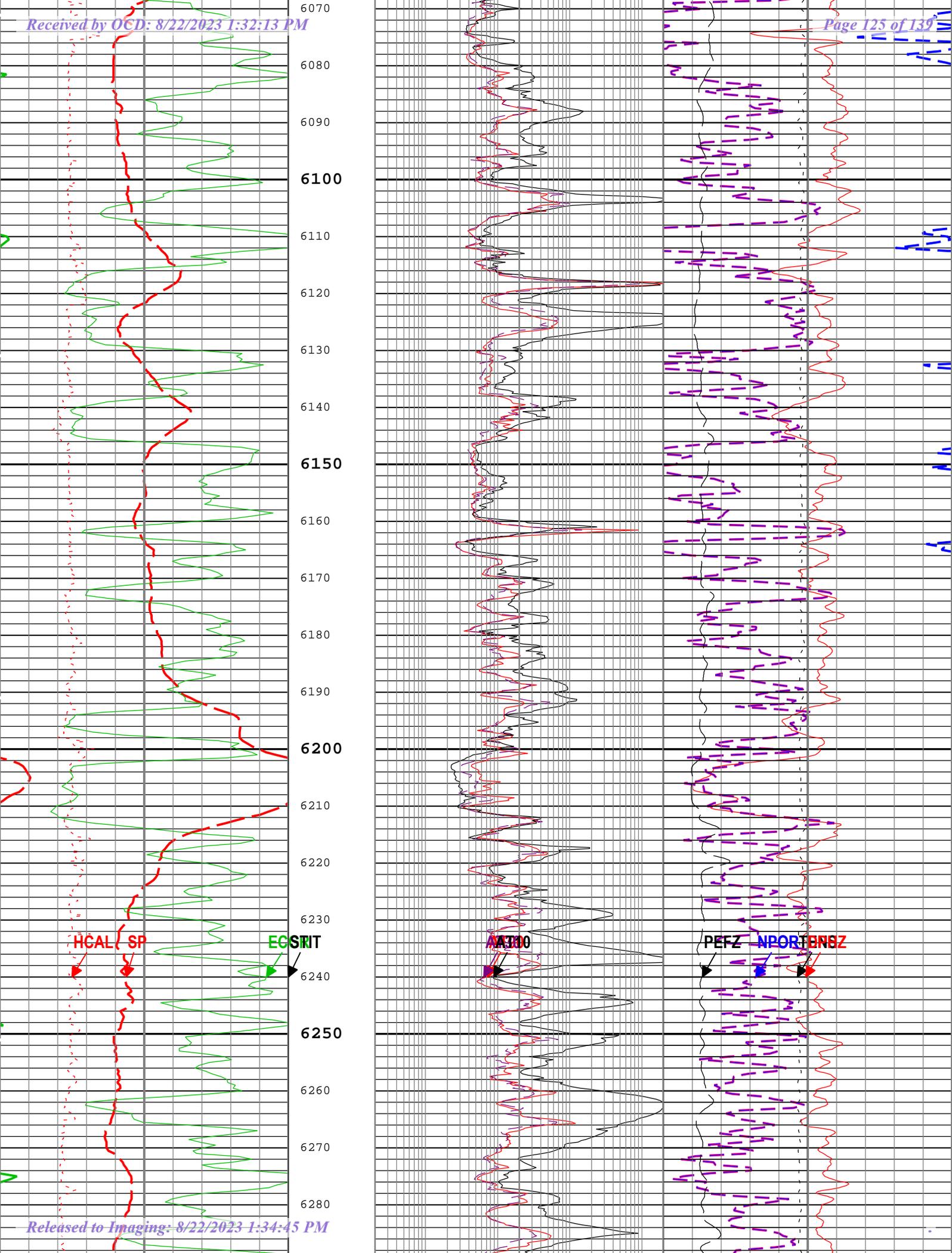
PEFZ

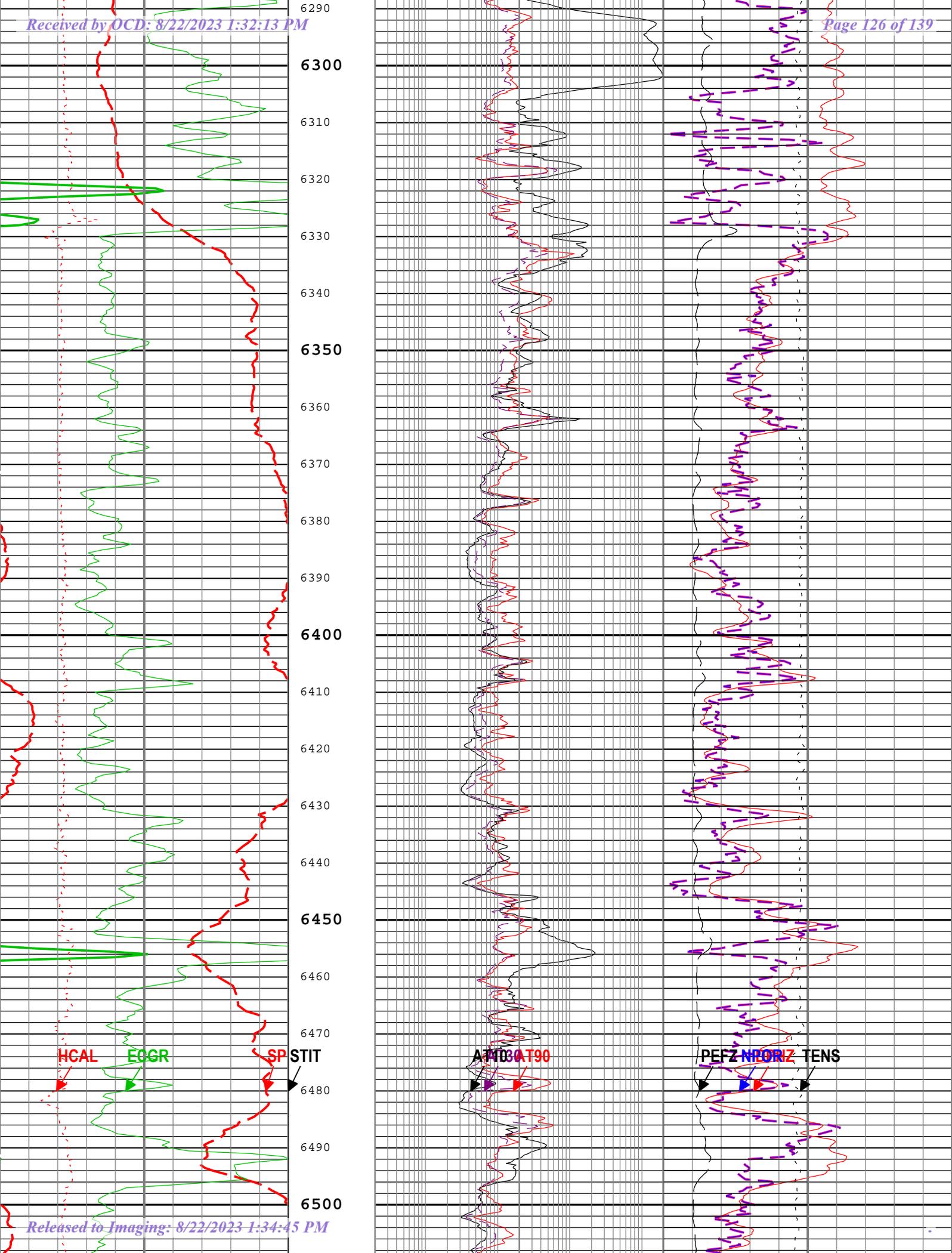
DTENS

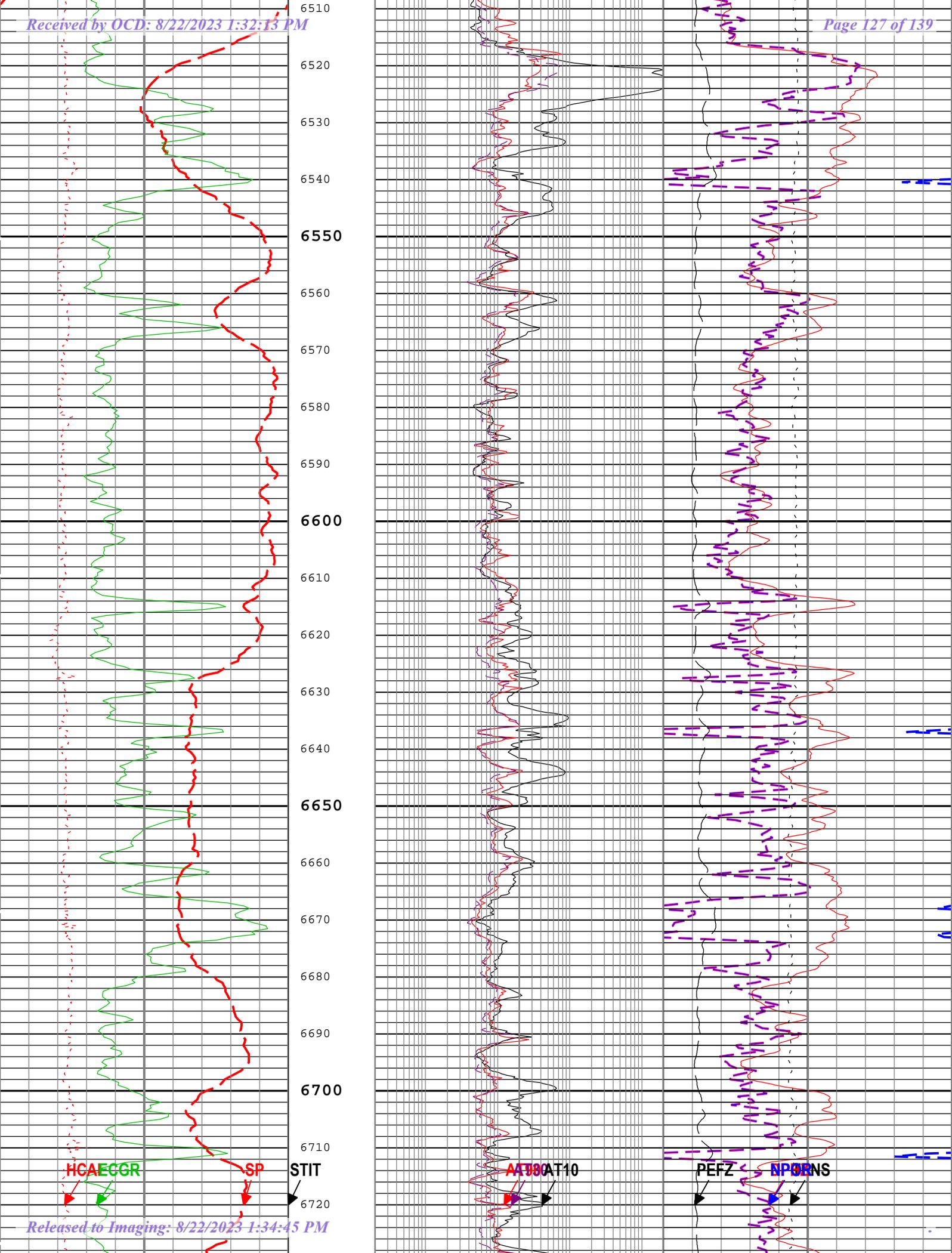
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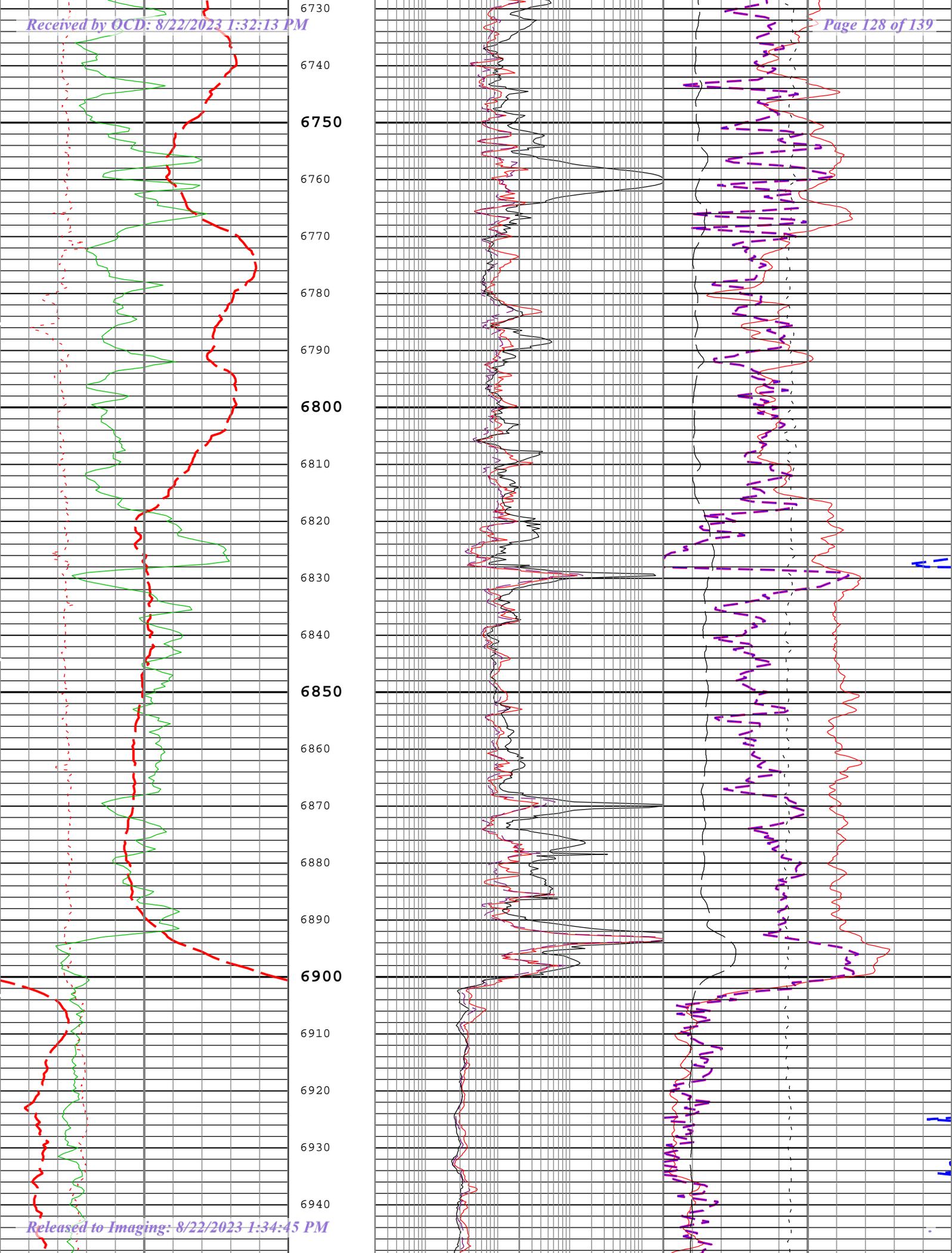


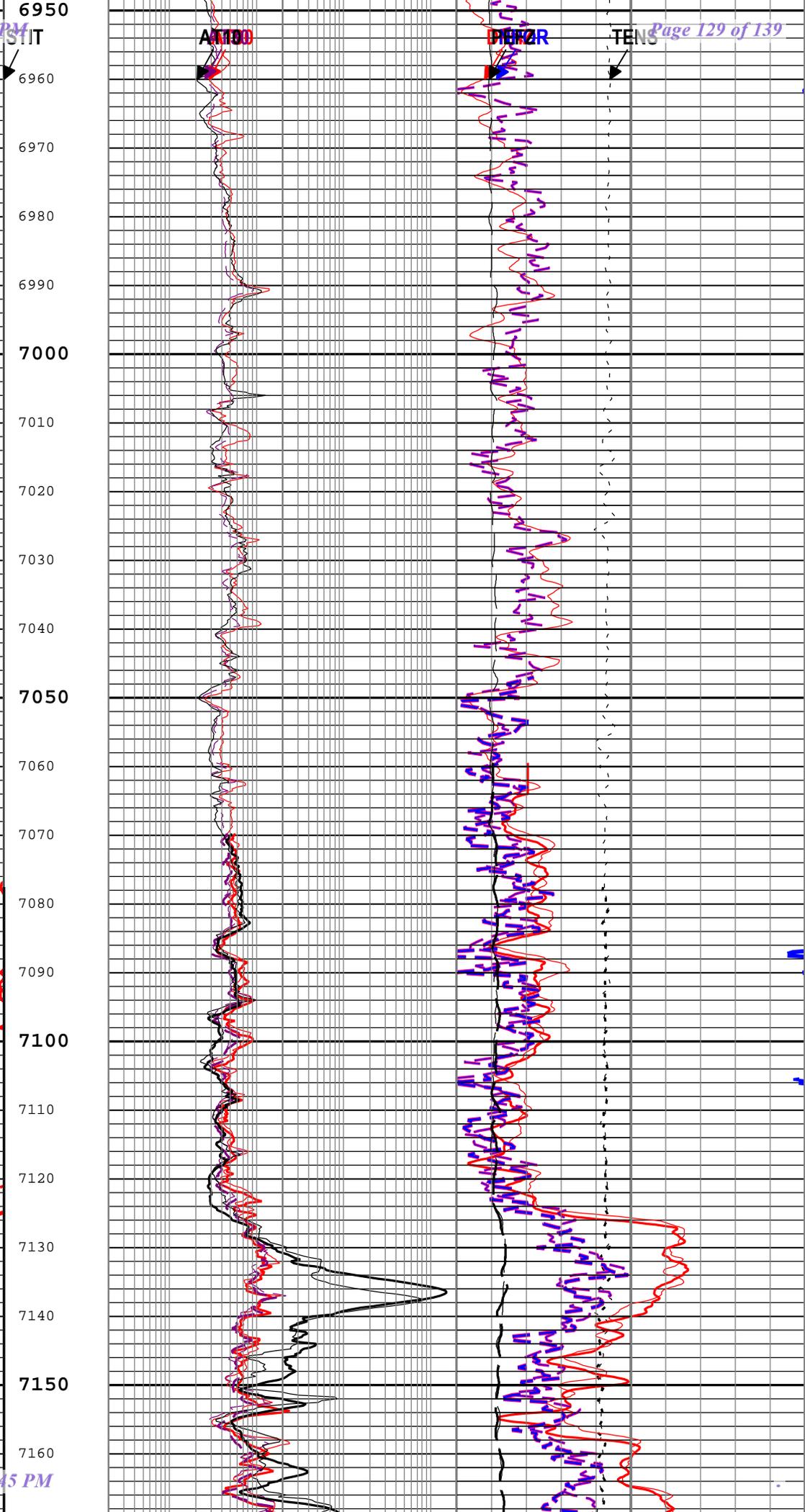
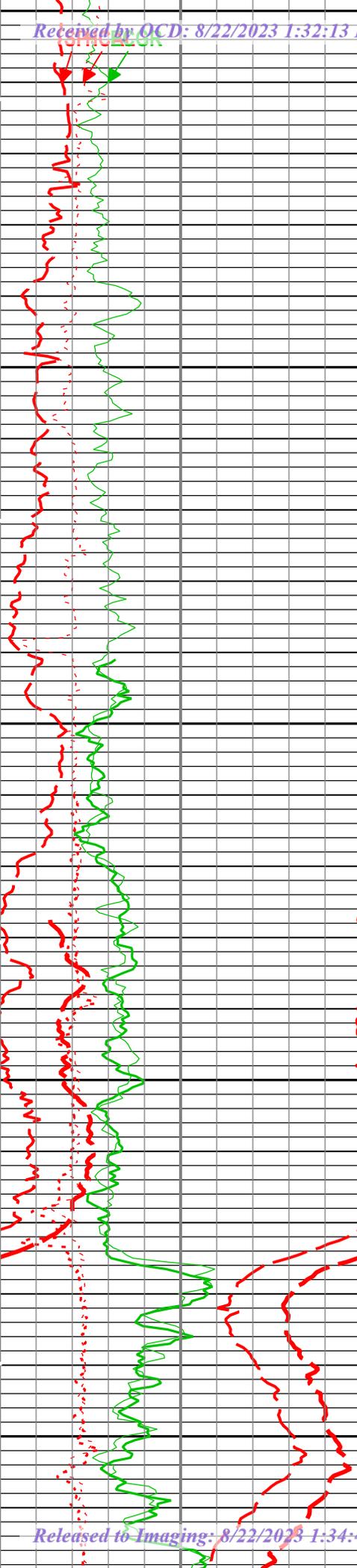








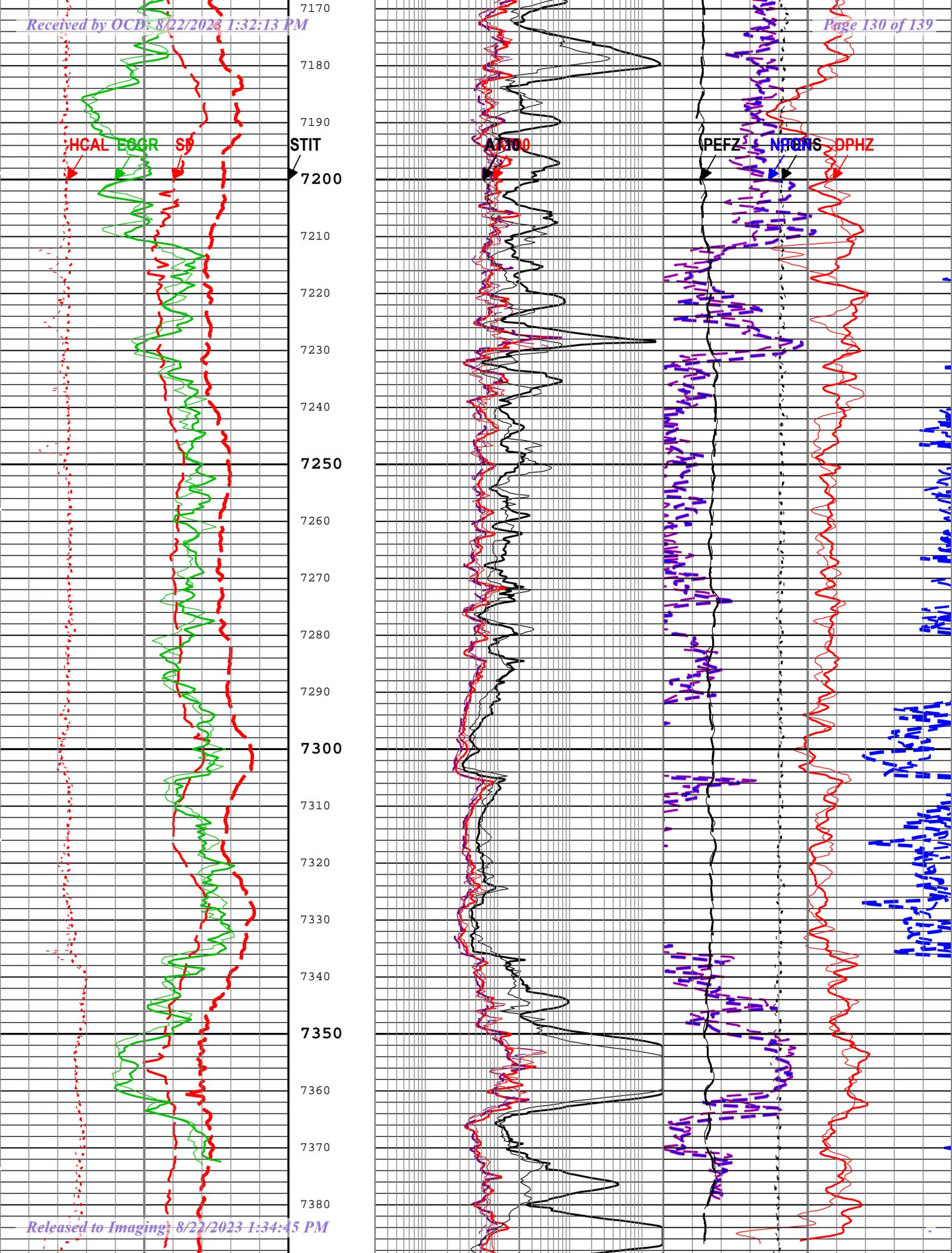


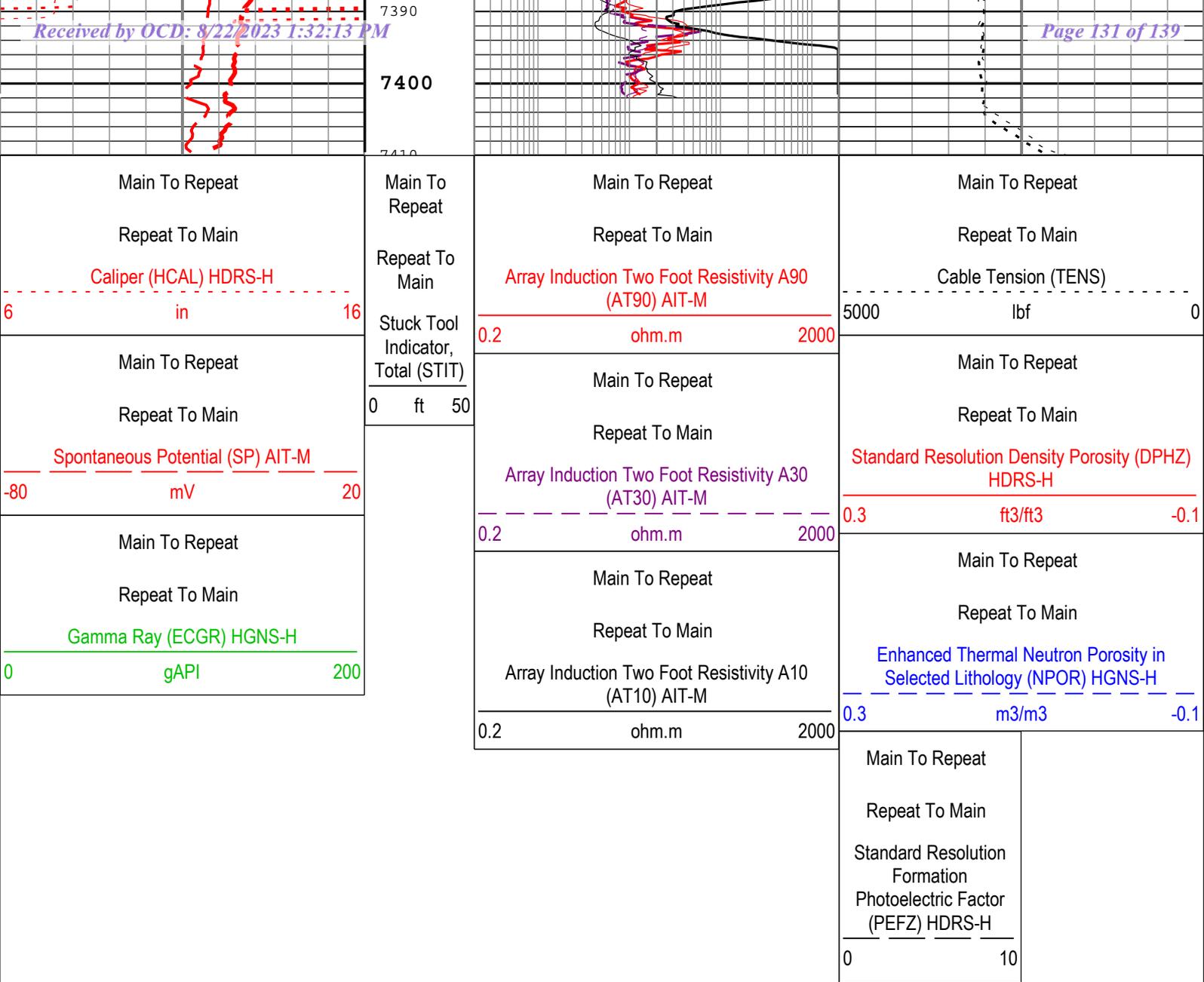


ATTOR

DIBZR

TENS





TIME_1900 - Time Marked every 60.00 (s)

Description: HGNS standard resolution porosities for Platform Express Format: Log (TripleCombo-5 RA) Index Scale: 5 in per 100 ft Index Unit: ft Index Type: Measured Depth Creation Date: 02-Oct-2018 17:51:13

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	
BHT	Bottom Hole Temperature	Borehole	159.65	degF
BS	Bit Size	WLSESSION	8.5	in
BSAL	Borehole Salinity	Borehole	0	ppm
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
DFD	Drilling Fluid Density	Borehole	8.6	lbm/gal
DFL	Drilling Fluid Type	Borehole	Water	
DFL_WATER	Drilling Fluid Water Type	Borehole	WBM	

DPT_WATER	Drilling Fluid Water Type	Borehole	WBM	
DHC	Received by OCD: 8/22/2023 1:32:13 PM	HDRS-H	Bit Size	Page 132 of 139
FD	Fluid Density	Borehole	1	g/cm3
FSAL	Formation Salinity	Borehole	0	ppm
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	
GTSE	Generalized Temperature Selection, from Measured or Computed Temperature	Borehole	CTEM	
HSCO	Hole Size Correction Option	HGNS-H	Yes	
MATR	Rock Matrix for Neutron Porosity Corrections	Borehole	SANDSTONE	
MDEN	Matrix Density for Density Porosity	Borehole	2.68	g/cm3
MFST	Mud Filtrate Sample Temperature	Borehole	68	degF
RMFS	Resistivity of Mud Filtrate Sample	Borehole	0.14	ohm.m
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
HMCA_BOARD_TYPE	HMCA Board Type	HGNS-H	1	
HRGD_BOARD_TYPE	HRGD Board Type	HDRS-H	WITH_HET	
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	
Test Loop Gain - 1		Master	1.000	0.950	1.009	1.050	
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 - 1	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 Zero	mV	Master	-----	-50.000	-0.104	50.000	
SPA Plus	mV	Master	-----	941.000	990.202	1040.000	
Temperature Zero	V	Master	-----	-0.050	0.000	0.050	
Temperature Plus	V	Master	-----	0.870	0.917	0.960	

HDRS-H (HILT Density and Rxo Sonde, 150 degC) Calibration - Run One

Primary Equipment :		
HILT High-Resolution Control Cartridge, 150 degC	HRCC-H	
HILT Resistivity Gamma-Ray Density Device, 150 degC	HRGD-H	4957
Auxiliary Equipment :		
HRDD Backscatter Detector	Backscatter	26784
HRDD Long Spacing Detector	Long Spacing	
HRDD Short Spacing Detector	Short Spacing	
Cesium 137 Gamma-Ray Logging Source	GSR-J	5259
HILT High-Resolution Control Cartridge, 150 degC	HRCC-H	
HILT High-Resolution Mechanical Sonde, 150 degC	HRMS-H	

Calibration Parameter :	
Small Ring Size	
Large Ring Size	

Received by UCID: 8/22/2023 1:32:13 PM

Master (EEPROM):		18:01:40 29-Sep-2018					
Measurement	Unit	Phase	Nominal	Low Limit	Actual	High Limit	
Rho Aluminum	g/cm3	Master	2.596	2.586	2.597	2.606	
Rho Magnesium	g/cm3	Master	1.686	1.676	1.689	1.696	
Pe Aluminum		Master	2.570	2.470	2.563	2.670	
Pe Magnesium		Master	2.650	2.550	2.591	2.750	

HDRS Density Calibration - Deviation Summary

Master (EEPROM):		18:01:40 29-Sep-2018					
Measurement	Unit	Phase	Nominal	Low Limit	Actual	High Limit	
BS Average Deviation	%	Master	0	-0.6000	0.5817	0.6000	
BS Max Deviation	%	Master	0	-1.6000	1.2730	1.6000	
SS Average Deviation	%	Master	0	-1.0000	0.3079	1.0000	
SS Max Deviation	%	Master	0	-2.5000	1.4753	2.5000	
LS Average Deviation	%	Master	0	-1.5000	1.0802	1.5000	
LS Max Deviation	%	Master	0	-3.5000	3.1908	3.5000	

HDRS Density Calibration - Background Summary

Master (EEPROM):		18:01:40 29-Sep-2018					
Measurement	Unit	Phase	Nominal	Low Limit	Actual	High Limit	
BS Window Ratio		Master	1.0000		0.7472		
BS Window Sum	1/s	Master	1		24154		
SS Window Ratio		Master	1.0000		0.4936		
SS Window Sum	1/s	Master	1		10695		
LS Window Ratio		Master	1.0000		0.3032		
LS Window Sum	1/s	Master	1		1192		

HDRS Density Calibration - Photo-multiplier High Voltages

Master (EEPROM):		18:01:40 29-Sep-2018					
Measurement	Unit	Phase	Nominal	Low Limit	Actual	High Limit	
BS PM High Voltage	V	Master		1000	1320	2400	
SS PM High Voltage	V	Master		1000	1419	2400	
LS PM High Voltage	V	Master		1000	1346	2400	

HDRS Density Calibration - Crystal Quality Resolutions

Master (EEPROM):		18:01:40 29-Sep-2018					
Measurement	Unit	Phase	Nominal	Low Limit	Actual	High Limit	
BS Crystal Resolution	%	Master		5.00	11.61	25.00	
SS Crystal Resolution	%	Master		5.00	9.62	20.00	
LS Crystal Resolution	%	Master		5.00	8.77	20.00	

HGNS-H (HILT Gamma-Ray and Neutron Sonde, 150 degC) Calibration - Run One

Primary Equipment :			
HILT Gamma-Ray and Neutron Sonde, 150 degC		HGNS-H	
Auxiliary Equipment :			
HGNS Accelerometer, 150 degC		HACCZ-H	4264
AmBe Neutron Logging Source		NSR-F	5203
Calibration Parameter :			
Water Temperature (Calibration Tank Water Temperature)		76.0	
Housing Size (Thermal Housing Size)		3.38	
JIG-BKG (Jig minus background reference)		160	

HGNS Accelerometer EEPROM - Accelerometer EEPROM Read

Master (EEPROM):		18:00:00 14-Jun-2005					
Measurement	Unit	Phase	Nominal	Low Limit	Actual	High Limit	
Accelerometer Manufacturer		Master			QAT_160		
Accelerometer Reference Temperature	degF	Master		30.2	77.0	122.0	
Accelerometer Reference		Master	----	----	5359.000	----	
Accelerometer Coefficients - 1		Master	----	----	-15.426	----	

Accelerometer Coefficients - 2	Master	----	----	0.015	----	
Accelerometer Coefficients - 3	Master	----	----	0.000	----	
Accelerometer Coefficients - 4	Master	----	----	2.742	----	
Accelerometer Coefficients - 5	Master	----	----	0.000	----	
Accelerometer Coefficients - 6	Master	----	----	0.000	----	
Accelerometer Coefficients - 7	Master	----	----	0.000	----	
Accelerometer Coefficients - 8	Master	----	----	299.400	----	
Accelerometer Coefficients - 9	Master	----	----	1.009	----	

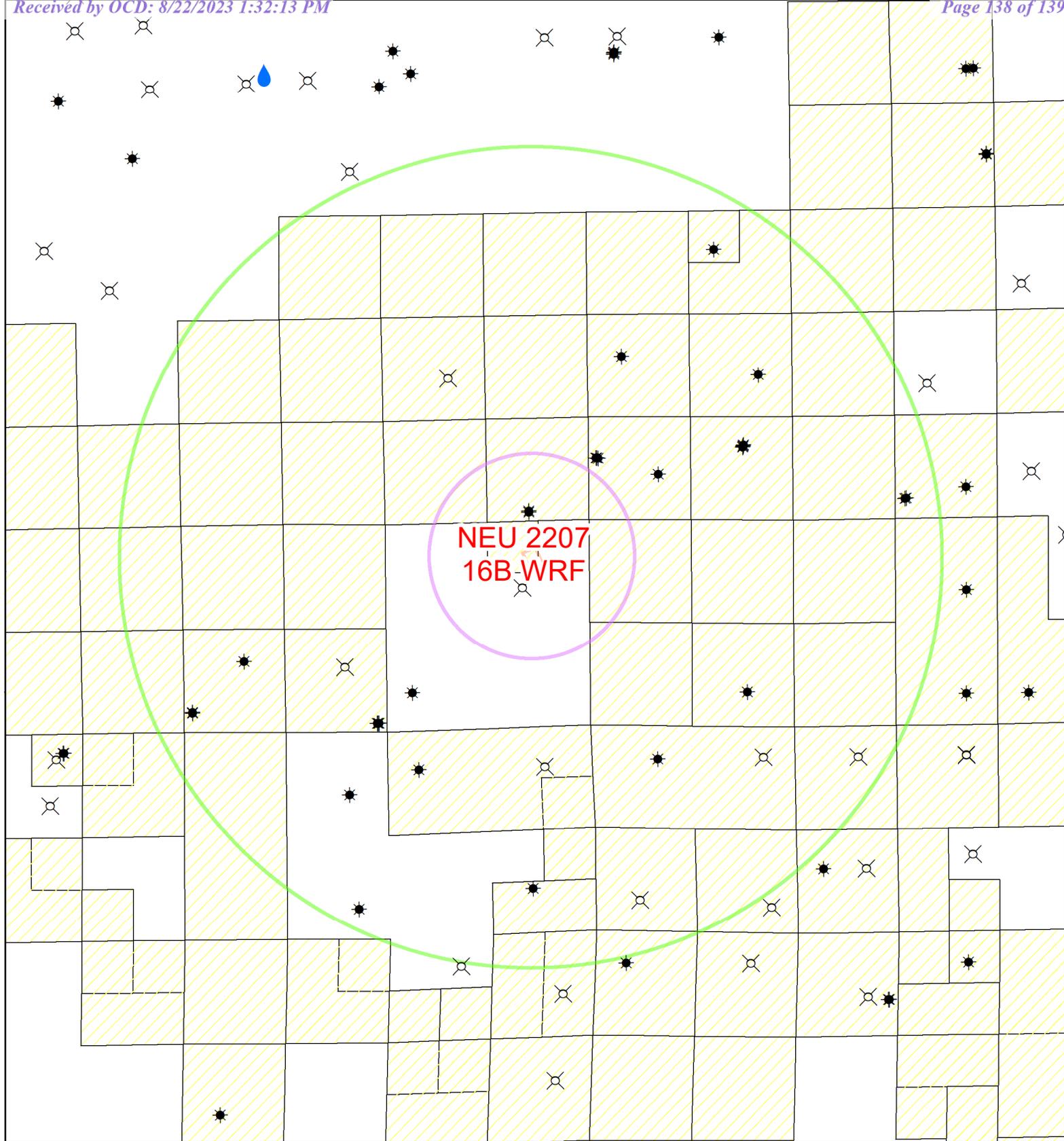
HGNS Neutron Calibration - HGNS Neutron Accumulations

Master (EEPROM): 18:59:08 29-Sep-2018

Measurement	Unit	Phase	Nominal	Low Limit	Actual	High Limit	
Near Zero Measurement	1/s	Master	0	5.0	27.6	40.0	
Far Zero Measurement	1/s	Master	0	5.0	27.6	40.0	
Near Plus Measurement	1/s	Master	6031.0	4700.0	5023.0	6900.0	
Far Plus Measurement	1/s	Master	2793.0	1900.0	2144.0	2900.0	
Near Corrected Plus Measurement	1/s	Master		4700.0	4991.0	6900.0	
Far Corrected Plus Measurement	1/s	Master		1900.0	2114.0	2900.0	

Company:	Enduring Resources, LLC	Schlumberger
Well:	North Escavada Unit 2207-16B-WSW	
Field:	Sandoval	
County:	Sandoval	
State:	New Mexico	
Platform Express		
Triple Combo		

ENCLOSURE K: WELL LOCATION AND NEAREST WELLS



2207-16B WSW Area of Review

- Active
- Plugged (site released)
- Temporary Abandonment
- OSE Points of Diversion
- Half Mile Buffer
- 2 Mile Buffer
- Leases
- Pads



ENDURING RESOURCES, LLC

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

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 255583

CONDITIONS

Operator: ENDURING RESOURCES, LLC 6300 S Syracuse Way, Suite 525 Centennial, CO 80111	OGRID: 372286
	Action Number: 255583
	Action Type: [IM-SD] Admin Order Support Doc (ENG) (IM-AAO)

CONDITIONS

Created By	Condition	Condition Date
pgoetze	None	8/22/2023