

Confidentiality Requested:

Yes  No

KANSAS CORPORATION COMMISSION  
OIL & GAS CONSERVATION DIVISION

Form ACO-1

January 2018

Form must be Typed

Form must be Signed

All blanks must be Filled

WELL COMPLETION FORM  
WELL HISTORY - DESCRIPTION OF WELL & LEASE

OPERATOR: License # \_\_\_\_\_

Name: \_\_\_\_\_

Address 1: \_\_\_\_\_

Address 2: \_\_\_\_\_

City: \_\_\_\_\_ State: \_\_\_\_\_ Zip: \_\_\_\_\_ + \_\_\_\_\_

Contact Person: \_\_\_\_\_

Phone: ( \_\_\_\_\_ ) \_\_\_\_\_

CONTRACTOR: License # \_\_\_\_\_

Name: \_\_\_\_\_

Wellsite Geologist: \_\_\_\_\_

Purchaser: \_\_\_\_\_

Designate Type of Completion:

New Well  Re-Entry  Workover

Oil  WSW  SWD

Gas  DH  EOR

OG  GSW

CM (Coal Bed Methane)

Cathodic  Other (Core, Expl., etc.): \_\_\_\_\_

If Workover/Re-entry: Old Well Info as follows:

Operator: \_\_\_\_\_

Well Name: \_\_\_\_\_

Original Comp. Date: \_\_\_\_\_ Original Total Depth: \_\_\_\_\_

Deepening  Re-perf.  Conv. to EOR  Conv. to SWD  
 Plug Back  Liner  Conv. to GSW  Conv. to Producer

Commingled Permit #: \_\_\_\_\_

Dual Completion Permit #: \_\_\_\_\_

SWD Permit #: \_\_\_\_\_

EOR Permit #: \_\_\_\_\_

GSW Permit #: \_\_\_\_\_

Spud Date or Date Reached TD Completion Date or  
Recompletion Date Recompletion Date

API No.: \_\_\_\_\_

Spot Description: \_\_\_\_\_

\_\_\_\_\_ - \_\_\_\_\_ - \_\_\_\_\_ Sec. \_\_\_\_\_ Twp. \_\_\_\_\_ S. R. \_\_\_\_\_  East  West

\_\_\_\_\_ Feet from  North /  South Line of Section

\_\_\_\_\_ Feet from  East /  West Line of Section

Footages Calculated from Nearest Outside Section Corner:

NE  NW  SE  SW

GPS Location: Lat: \_\_\_\_\_, Long: \_\_\_\_\_  
(e.g. xx.xxxxx) (e.g. -xxx.xxxxx)

Datum:  NAD27  NAD83  WGS84

County: \_\_\_\_\_

Lease Name: \_\_\_\_\_ Well #: \_\_\_\_\_

Field Name: \_\_\_\_\_

Producing Formation: \_\_\_\_\_

Elevation: Ground: \_\_\_\_\_ Kelly Bushing: \_\_\_\_\_

Total Vertical Depth: \_\_\_\_\_ Plug Back Total Depth: \_\_\_\_\_

Amount of Surface Pipe Set and Cemented at: \_\_\_\_\_ Feet

Multiple Stage Cementing Collar Used?  Yes  No

If yes, show depth set: \_\_\_\_\_ Feet

If Alternate II completion, cement circulated from: \_\_\_\_\_

feet depth to: \_\_\_\_\_ w/ \_\_\_\_\_ sx cmt.

Drilling Fluid Management Plan

(Data must be collected from the Reserve Pit)

Chloride content: \_\_\_\_\_ ppm Fluid volume: \_\_\_\_\_ bbls

Dewatering method used: \_\_\_\_\_

Location of fluid disposal if hauled offsite:

Operator Name: \_\_\_\_\_

Lease Name: \_\_\_\_\_ License #: \_\_\_\_\_

Quarter \_\_\_\_\_ Sec. \_\_\_\_\_ Twp. \_\_\_\_\_ S. R. \_\_\_\_\_  East  West

County: \_\_\_\_\_ Permit #: \_\_\_\_\_

AFFIDAVIT

I am the affiant and I hereby certify that all requirements of the statutes, rules and regulations promulgated to regulate the oil and gas industry have been fully complied with and the statements herein are complete and correct to the best of my knowledge.

Submitted Electronically

KCC Office Use ONLY

Confidentiality Requested

Date: \_\_\_\_\_

Confidential Release Date: \_\_\_\_\_

Wireline Log Received  Drill Stem Tests Received

Geologist Report / Mud Logs Received

UIC Distribution

ALT  I  II  III Approved by: \_\_\_\_\_ Date: \_\_\_\_\_

Operator Name: \_\_\_\_\_ Lease Name: \_\_\_\_\_ Well #: \_\_\_\_\_

Sec. \_\_\_\_\_ Twp. \_\_\_\_\_ S. R. \_\_\_\_\_  East  West County: \_\_\_\_\_

**INSTRUCTIONS:** Show important tops of formations penetrated. Detail all cores. Report all final copies of drill stems tests giving interval tested, time tool open and closed, flowing and shut-in pressures, whether shut-in pressure reached static level, hydrostatic pressures, bottom hole temperature, fluid recovery, and flow rates if gas to surface test, along with final chart(s). Attach extra sheet if more space is needed.

Final Radioactivity Log, Final Logs run to obtain Geophysical Data and Final Electric Logs must be emailed to kcc-well-logs@kcc.ks.gov. Digital electronic log files must be submitted in LAS version 2.0 or newer AND an image file (TIFF or PDF).

Drill Stem Tests Taken <input type="checkbox"/> Yes <input type="checkbox"/> No <i>(Attach Additional Sheets)</i>  Samples Sent to Geological Survey <input type="checkbox"/> Yes <input type="checkbox"/> No  Cores Taken <input type="checkbox"/> Yes <input type="checkbox"/> No Electric Log Run <input type="checkbox"/> Yes <input type="checkbox"/> No Geologist Report / Mud Logs <input type="checkbox"/> Yes <input type="checkbox"/> No  List All E. Logs Run:	<input type="checkbox"/> Log Formation (Top), Depth and Datum <input type="checkbox"/> Sample  Name Top Datum
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CASING RECORD <input type="checkbox"/> New <input type="checkbox"/> Used							
Report all strings set-conductor, surface, intermediate, production, etc.							
Purpose of String	Size Hole Drilled	Size Casing Set (In O.D.)	Weight Lbs. / Ft.	Setting Depth	Type of Cement	# Sacks Used	Type and Percent Additives

ADDITIONAL CEMENTING / SQUEEZE RECORD				
Purpose:	Depth Top Bottom	Type of Cement	# Sacks Used	Type and Percent Additives
<input type="checkbox"/> Perforate <input type="checkbox"/> Protect Casing <input type="checkbox"/> Plug Back TD <input type="checkbox"/> Plug Off Zone				

1. Did you perform a hydraulic fracturing treatment on this well?  Yes  No *(If No, skip questions 2 and 3)*
2. Does the volume of the total base fluid of the hydraulic fracturing treatment exceed 350,000 gallons?  Yes  No *(If No, skip question 3)*
3. Was the hydraulic fracturing treatment information submitted to the chemical disclosure registry?  Yes  No *(If No, fill out Page Three of the ACO-1)*

Date of first Production/Injection or Resumed Production/Injection:	Producing Method: <input type="checkbox"/> Flowing <input type="checkbox"/> Pumping <input type="checkbox"/> Gas Lift <input type="checkbox"/> Other <i>(Explain)</i> _____			
Estimated Production Per 24 Hours	Oil Bbls.	Gas Mcf	Water Bbls.	Gas-Oil Ratio Gravity

DISPOSITION OF GAS: <input type="checkbox"/> Vented <input type="checkbox"/> Sold <input type="checkbox"/> Used on Lease <i>(If vented, Submit ACO-18.)</i>	METHOD OF COMPLETION: <input type="checkbox"/> Open Hole <input type="checkbox"/> Perf. <input type="checkbox"/> Dually Comp. <input type="checkbox"/> Commingled <i>(Submit ACO-5)</i> <i>(Submit ACO-4)</i>	PRODUCTION INTERVAL: Top Bottom
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Shots Per Foot	Perforation Top	Perforation Bottom	Bridge Plug Type	Bridge Plug Set At	Acid, Fracture, Shot, Cementing Squeeze Record <i>(Amount and Kind of Material Used)</i>

TUBING RECORD:	Size:	Set At:	Packer At:	
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Form	ACO1 - Well Completion
Operator	Citadel Oil LLC
Well Name	RAMSEY 2-30
Doc ID	1635817

All Electric Logs Run

Dual Induction
Dual Comp Porosity
Microresistivity
Radial Bond Log with Gamma

Form	ACO1 - Well Completion
Operator	Citadel Oil LLC
Well Name	RAMSEY 2-30
Doc ID	1635817

Tops

Name	Top	Datum
Anhydrite	2221	+683
Heebner	3889	-985
Lansing	3927	-1023
Muncie Creek	4102	-1198
Stark Shale	4198	-1294
Middle Creek	4247	-1343
Pleasanton	4293	-1389
Ft. Scott	4455	-1551
Cherokee	4476	-1572
Miss	4546	-1642





MIDWEST WIRELINE

# DUAL INDUCTION LOG

Company **Citadel Oil, LLC**  
 Well **Ramsey #2-30**  
 Field **Danny Northeast**  
 County **Lane** State **Kansas**

Company **Citadel Oil, LLC**  
 Well **Ramsey #2-30**  
 Field **Danny Northeast**  
 County **Lane**  
 State **Kansas**

Location: **API #: 15-101-22666-00-00**  
**808 FNL 2685 FEL**  
 SEC 30 TWP 17S RGE 30W  
 Permanent Datum **Ground Level** Elevation **2894**  
 Log Measured From **Kelly Bushing**  
 Drilling Measured From **Kelly Bushing**  
 Other Services **CNL/CDL MEL**  
 Elevation **2904**  
 K.B. **2904**  
 D.F. **2894**  
 G.L. **2894**

Date	2/1/2022	
Run Number	One	
Depth Driller	4560	
Depth Logger	4562	
Bottom Logged Interval	4561	
Top Log Interval	250	
Casing Driller	8.625 @ 268	
Casing Logger	268	
Bit Size	7.875	
Type Fluid in Hole	Chemical	
Salinity, ppm CL	3500	
Density / Viscosity	9.1	54
pH / Fluid Loss	10.5	8.8
Source of Sample	FLOWLINE	
Rm @ Meas. Temp	0.55 @ 50	
Rmt @ Meas. Temp	0.41 @ 50	
Rmc @ Meas. Temp	0.74 @ 50	
Source of Rmf / Rmc	CHARTS	
Rm @ BHT	0.23 @ 122	
Operating Rig Time	3 Hours	
Max Rec. Temp. F	122	
Equipment Number	P-24	
Location	Hays	
Recorded By	D. Schmidt	
Witnessed By	Vern Schrag	

<<< Fold Here >>>

All interpretations are opinions based on inferences from electrical or other measurements and Midwest Wireline LLC cannot and does not guarantee the accuracy or correctness of any interpretation, and Midwest Wireline LLC will not be liable or responsible for any loss, costs, damages, or expenses incurred or sustained by anyone resulting from any interpretation made by any of our officers, agents or employees.

**Comments**

**N/A DENOTES NOT AVAILABLE OR NON-APPLICABLE.**

Healy,  
 West to Bison Rd, South to 200 Rd, 1 1/2 West,  
 South into

Log Measured From: **Kelly Bushing** 10 Ft. Above Permanent Datum

**THANK YOU FOR USING MIDWEST WIRELINE LLC**  
**785-625-3858**

<b>Your Midwest Wireline Crew</b>		<b>This Log Record Was Witnessed By</b>	
Engineer: <b>D. Schmidt</b>	Operator:	Primary Witness: <b>Vern Schrag</b>	Secondary Witness:
Operator:	Operator:	Secondary Witness:	Secondary Witness:
Operator:		Secondary Witness:	

Operator	Offset (ft)	Substrate	Description	Length (ft)	O.D. (in)	Weight (lb)
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Sensor	Offset (ft)	Schematic	Description	Length (ft)	O.D. (in)	Weight (lb)
GR	40.33		GR-M&W (101)	3.00	3.50	50.00
CNLSC CNSSC	37.23 36.48		CNT-M&W (207-MW)	5.00	3.50	100.00
LSD DCAL SSD	28.18 28.17 27.68		CDL-M&W (305-05)	8.50	4.00	250.00
MCAL MI MN	19.58 19.58 19.58		ML-PSIML (402)	7.58	4.00	65.00
RLL3F RLL3	15.50 15.50					
CILD	8.33		DIL-M&W (501 HT)	18.25	3.50	220.00
CILM	4.50					
SP	0.20					

Dataset: citadel\_ramsey 2-30.db: field/well/stkml/pass3.14  
 Total length: 42.33 ft  
 Total weight: 685.00 lb  
 O.D.: 4.00 in

# Log Variables

DatabaseC:\ProgramData\Warrior\Data\citadel\_ramsey 2-30.db  
 Dataset field/well/stkml/pass3.14/\_vars\_

## Top - Bottom

A	BOREID in	BOTTEMP degF	CASEOD in	CASETHCK in	FLUIDDEN g/cc	M	MATRXDEN g/cc
1	7.875	122	4.5	0	1	2	2.71
NPORSEL	PERFS	SNDERR mmho/m	SNDERRM mmho/m	SPSHIFT mV	SRFTEMP degF	SZCOR	TDEPTH ft
Limestone	0	0	0	170	30	Off	4562

## Variable Description

A : Cement Factor (a)  
 BOREID : Borehole I.D.  
 BOTTEMP : Bottom Hole Temperature  
 CASEOD : Casing O.D.  
 CASETHCK : Casing Thickness  
 FLUIDDEN : Fluid Density  
 M : Cement Exp (m)  
 MATRXDEN : Matrix Density

NPORSEL : Neutron Porosity Curve Select  
 PERFS : Perforation Flag  
 SNDERR : Deep Sonde Error Correction  
 SNDERRM : Medium Sonde Error Correction  
 SPSHIFT : S.P. Baseline Offset  
 SRFTEMP : Surface Temperature  
 SZCOR : CN Size Cor. ?  
 TDEPTH : Total Depth

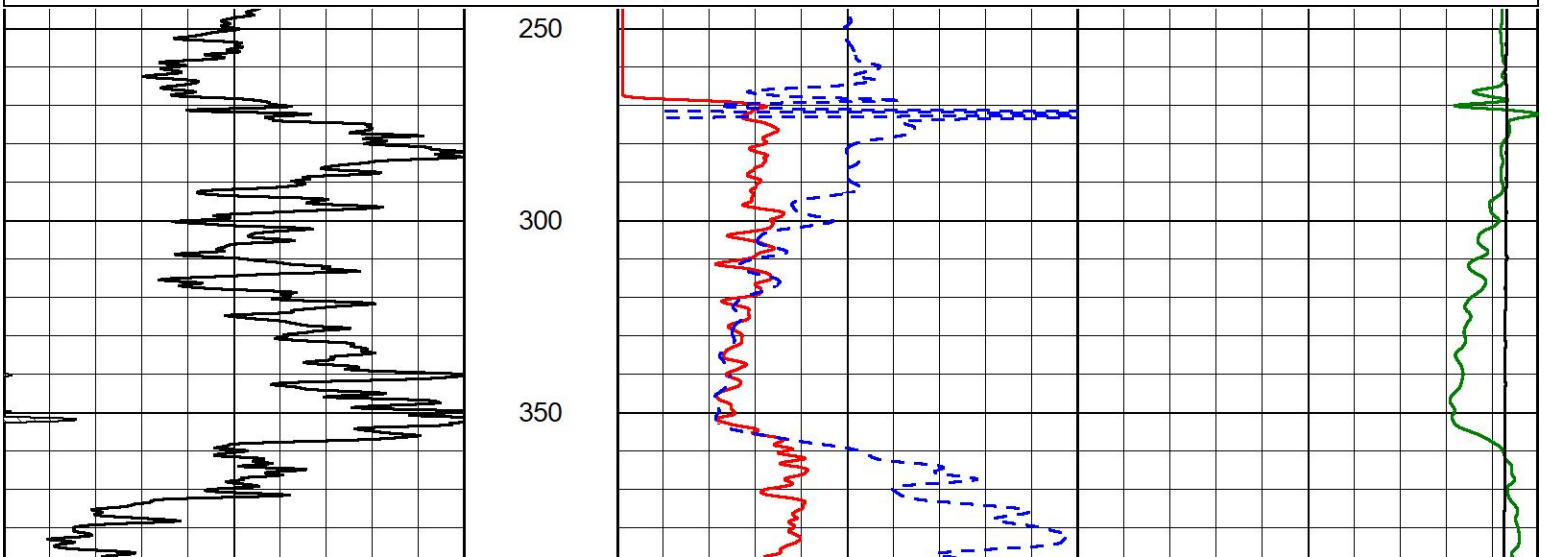


## 2" SCALE RESISTIVITY

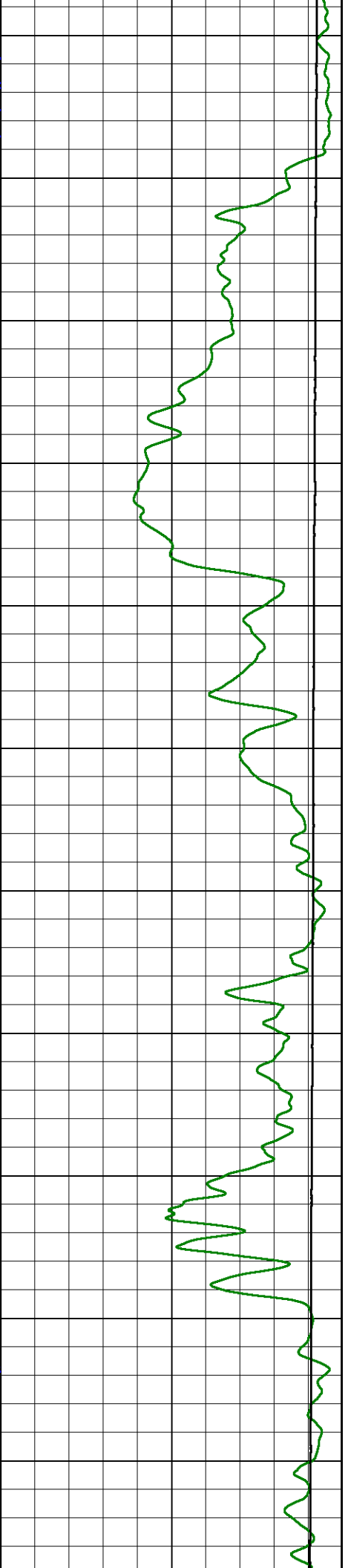
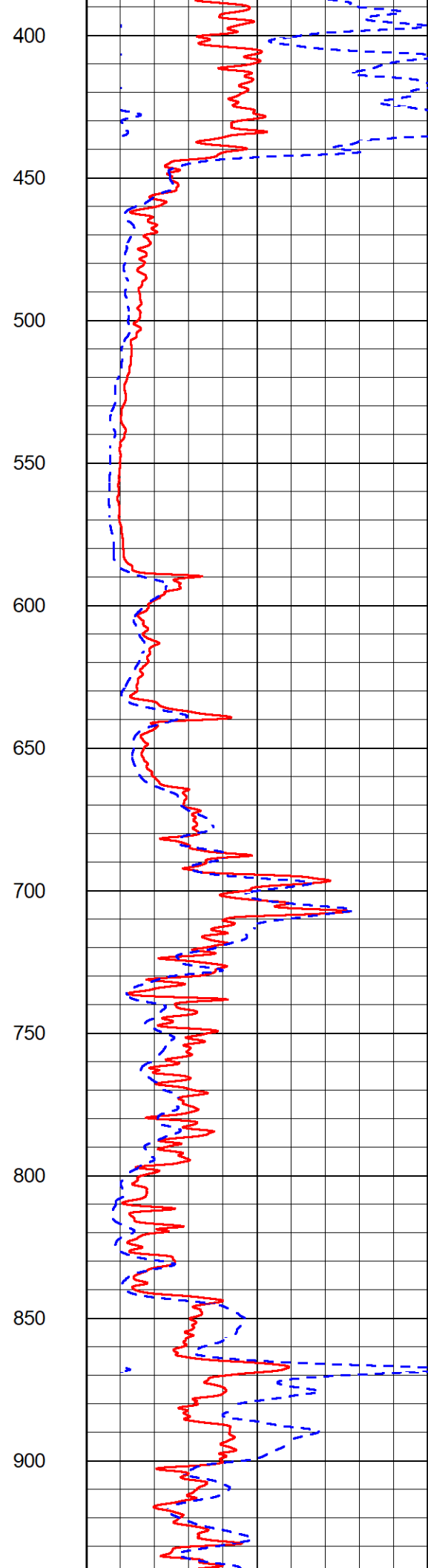
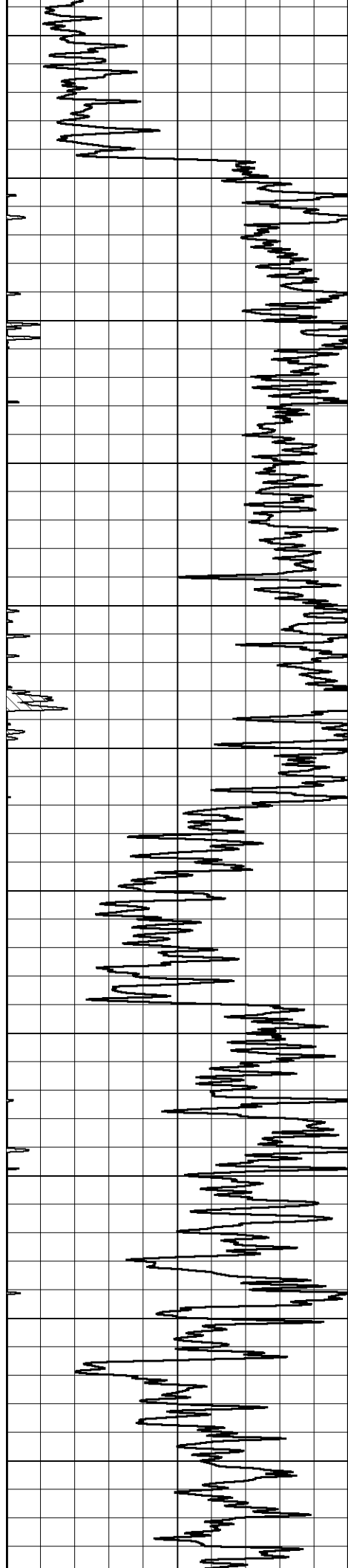
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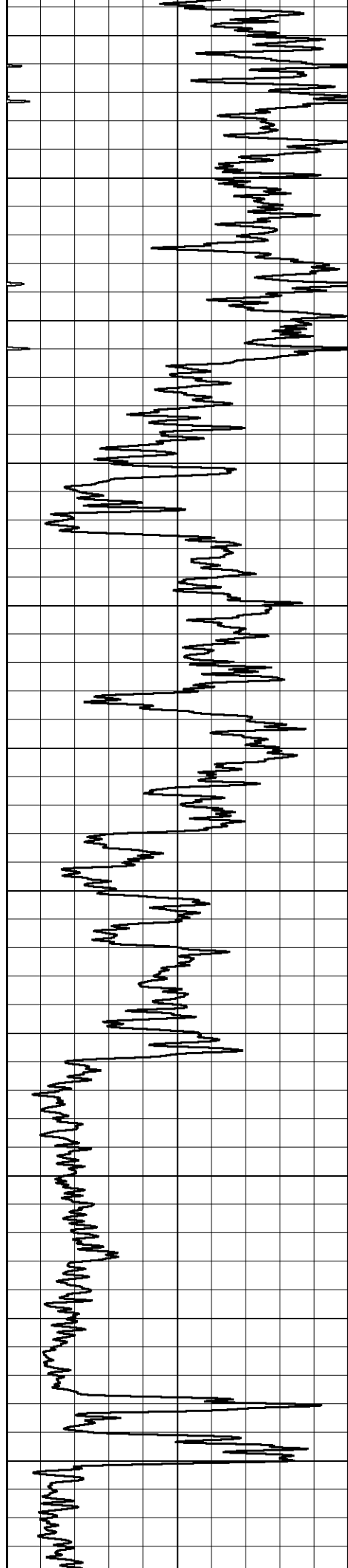
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 Dataset Pathname stkml/pass3.3  
 Presentation Format \_dil2in  
 Dataset Creation Tue Feb 01 22:36:30 2022  
 Charted by Depth in Feet scaled 1:600

0	Gamma Ray (GAPI)	150	1000	Conductivity (mmho/m)	0
			15000	Line Tension (lb)	0
0	Shallow Resistivity (Ohm-m)	50			
0	Deep Resistivity (Ohm-m)	50			
	Shallow Resistivity				
50	(Ohm-m)	200			
50	Deep Resistivity (Ohm-m)	200			

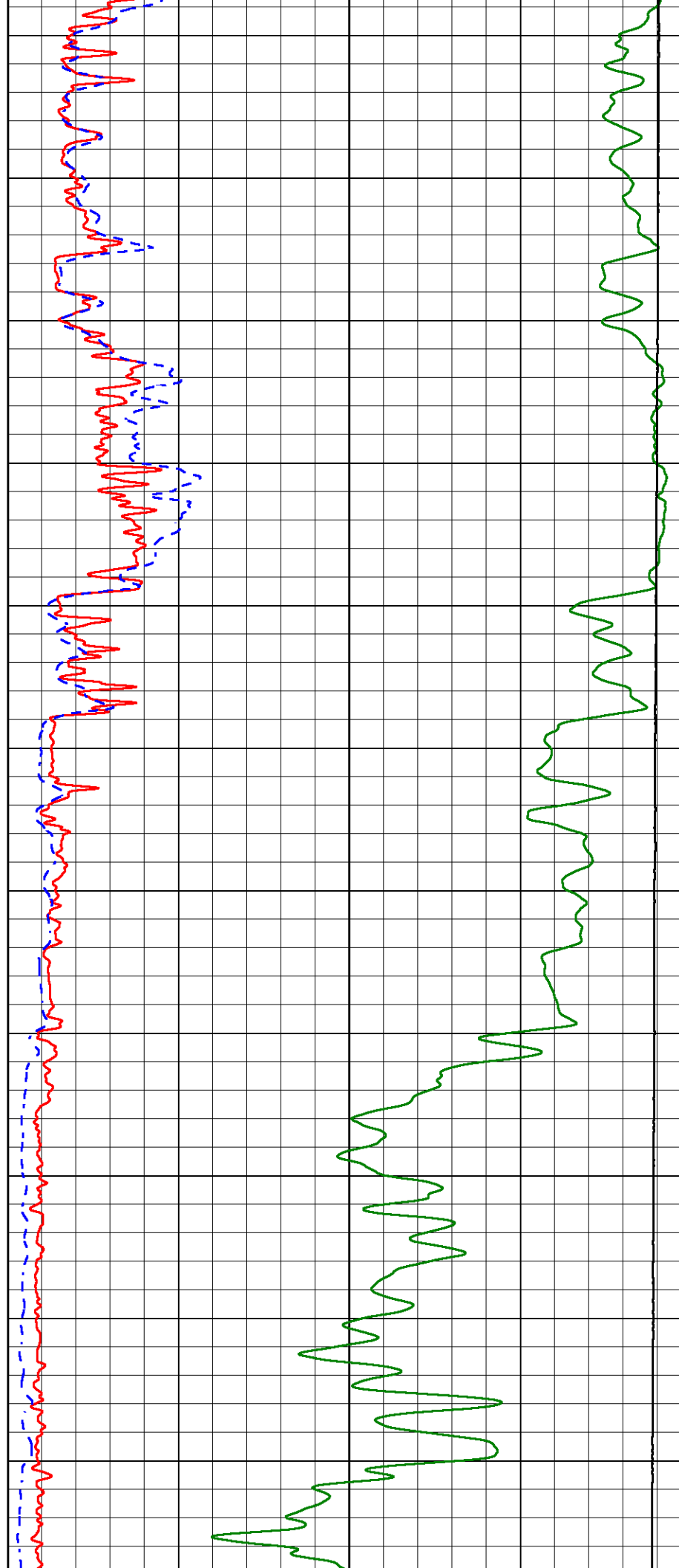


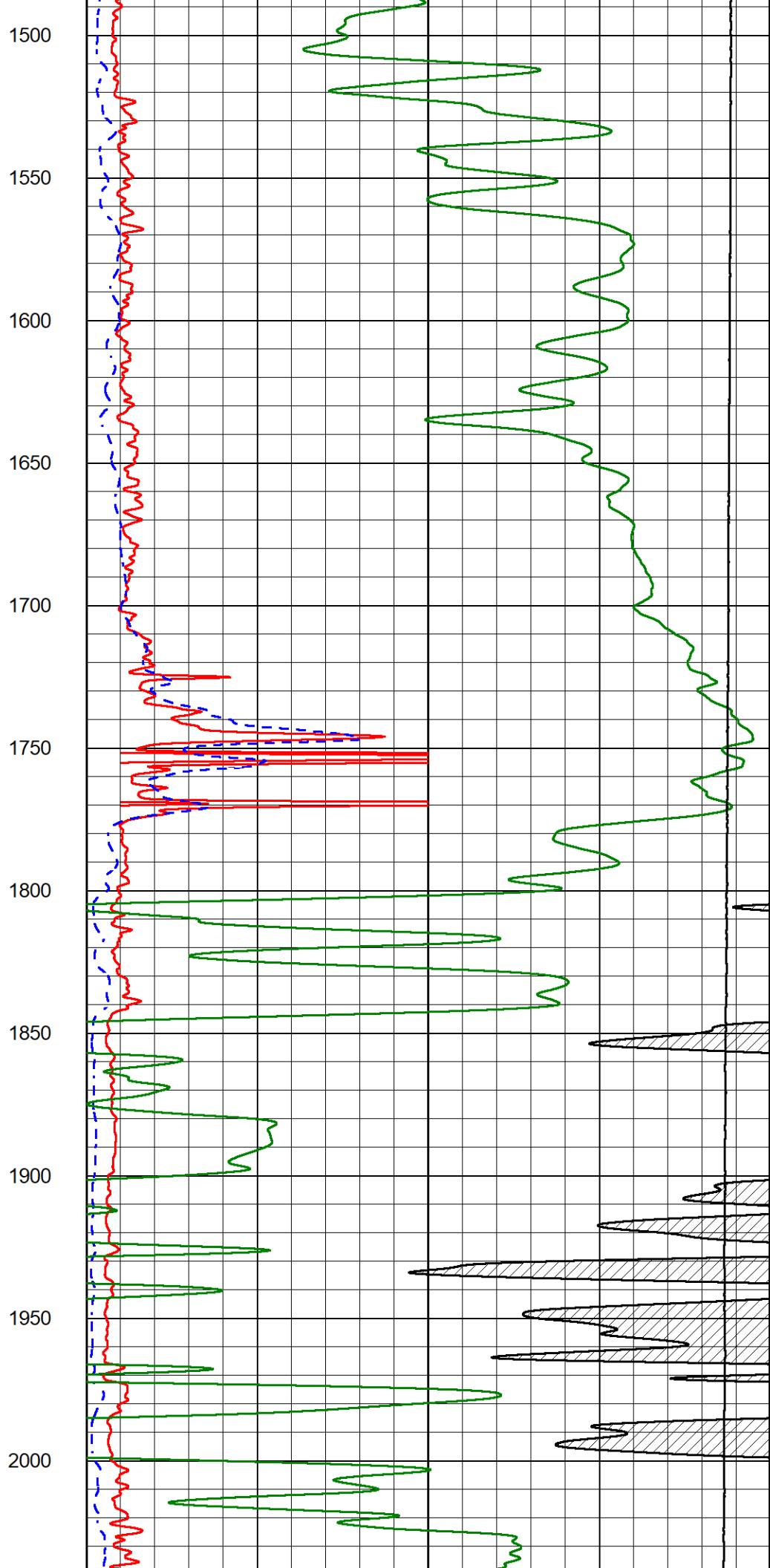
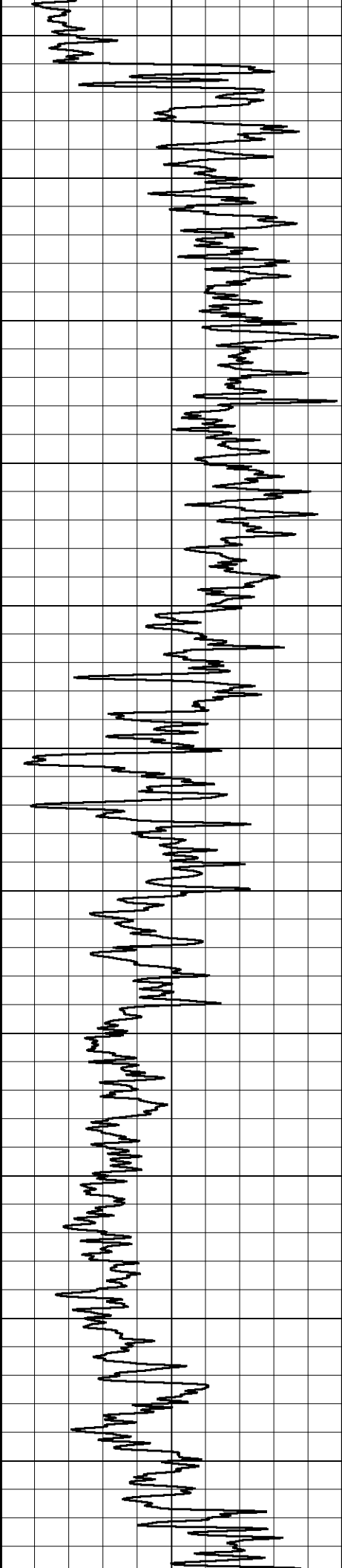


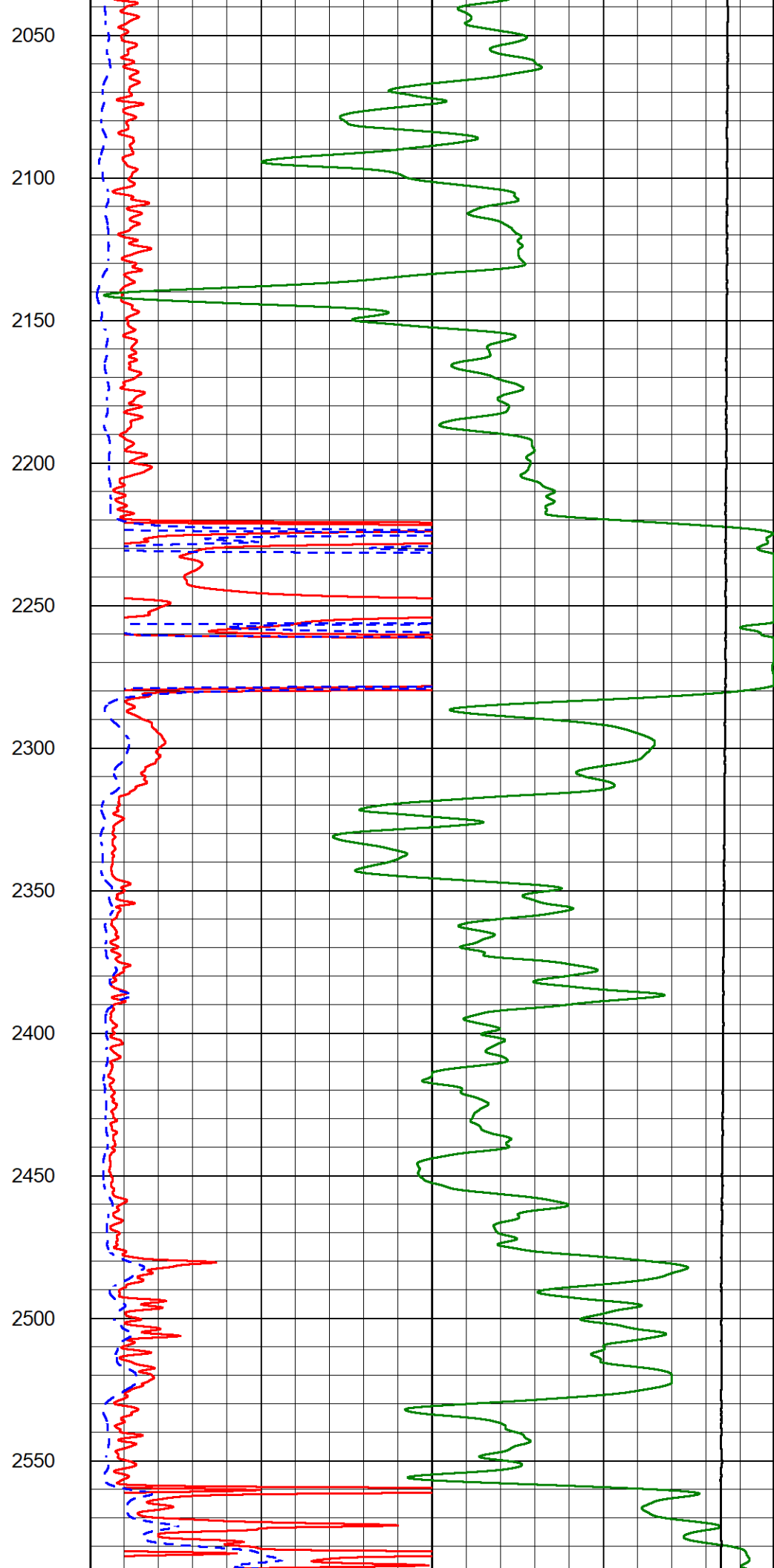
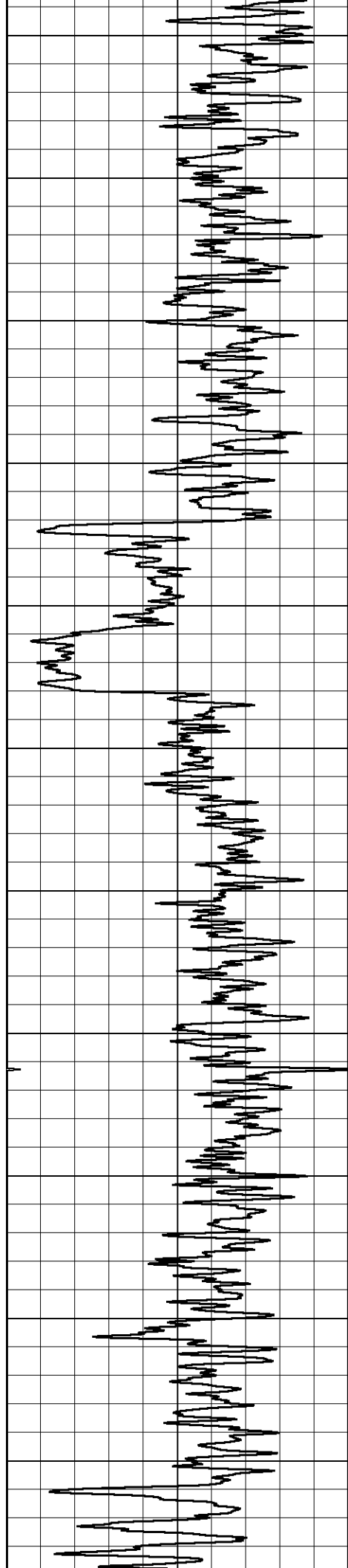


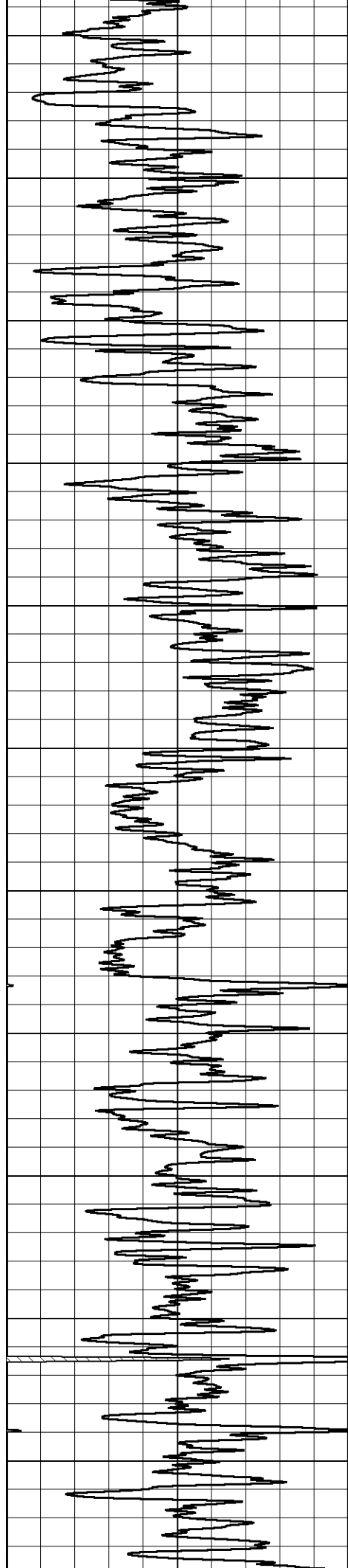


950  
1000  
1050  
1100  
1150  
1200  
1250  
1300  
1350  
1400  
1450









2600

2650

2700

2750

2800

2850

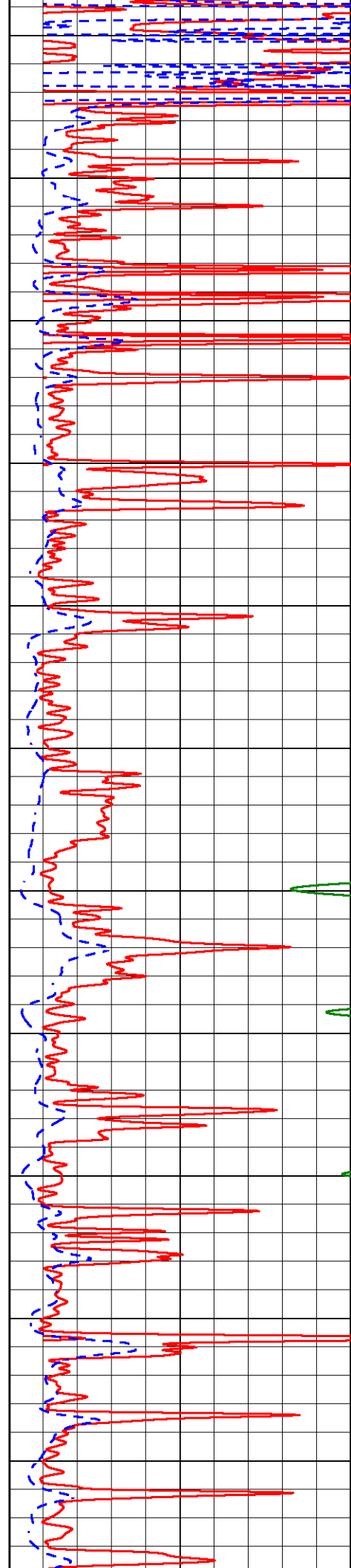
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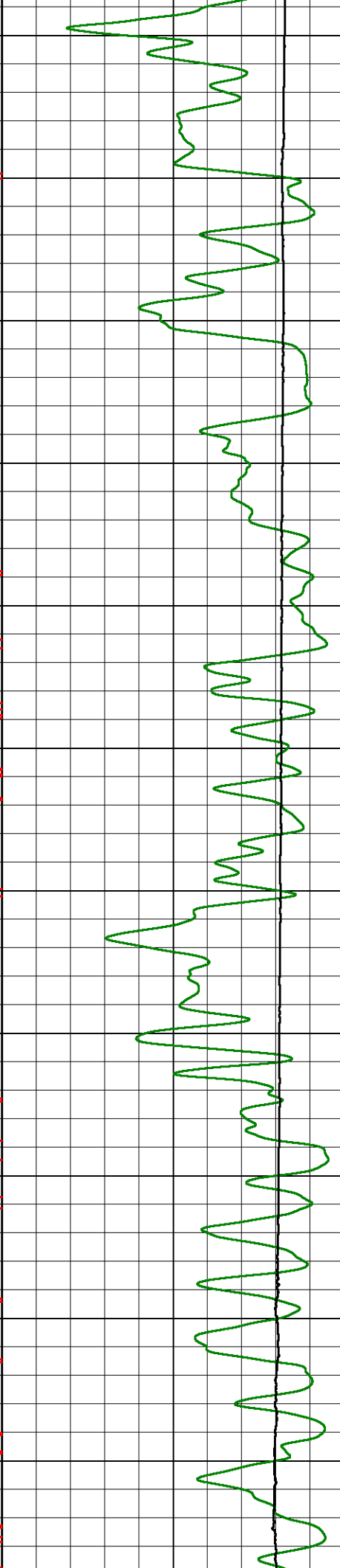
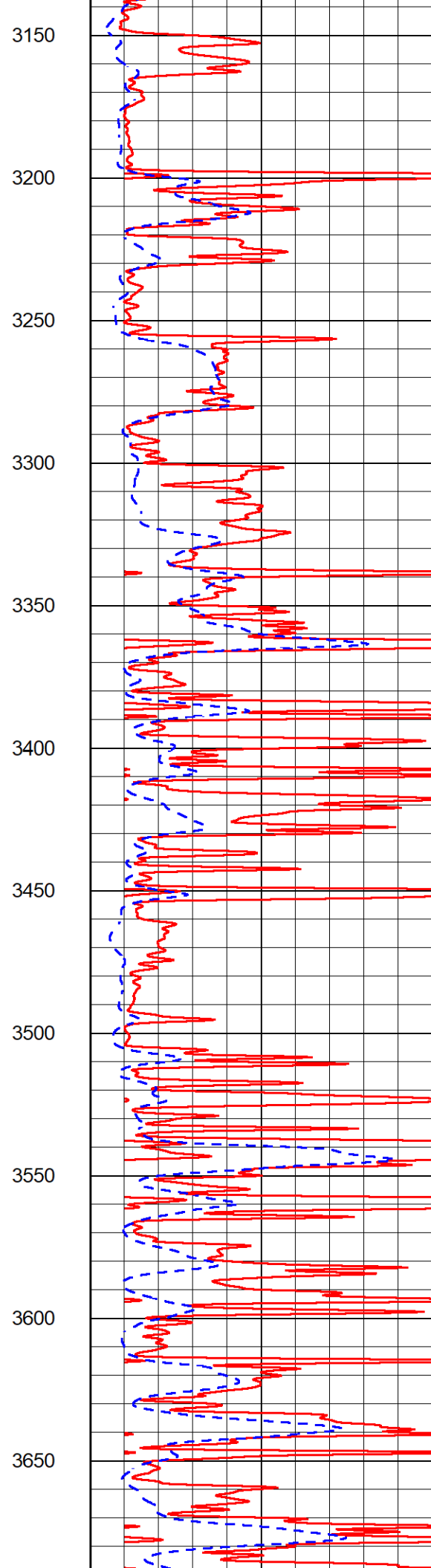
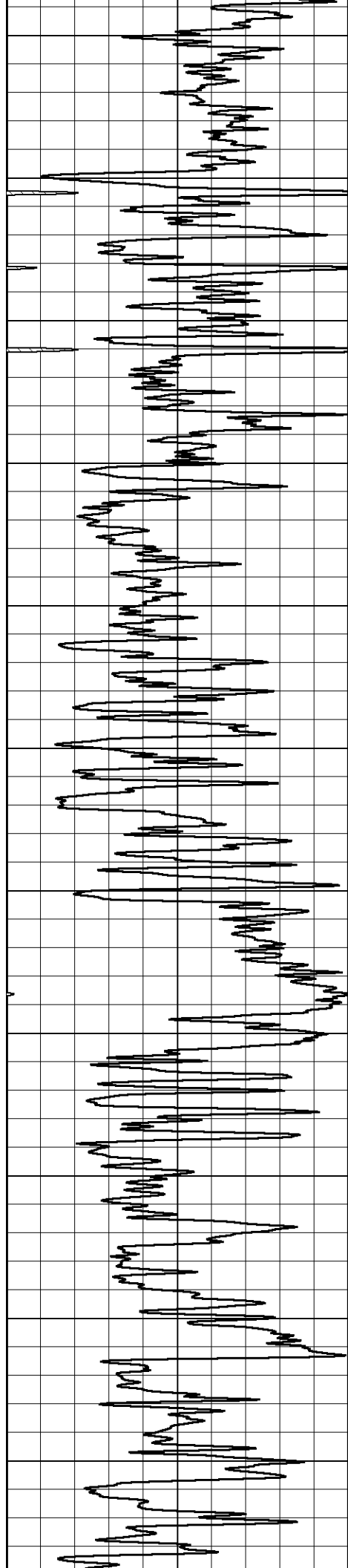
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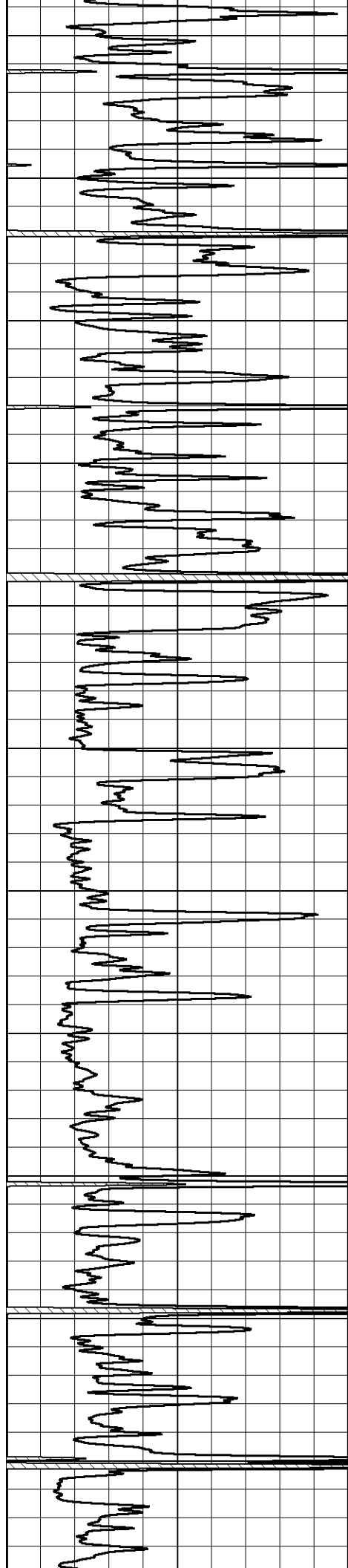
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3050

3100







3700

3750

3800

3850

3900

3950

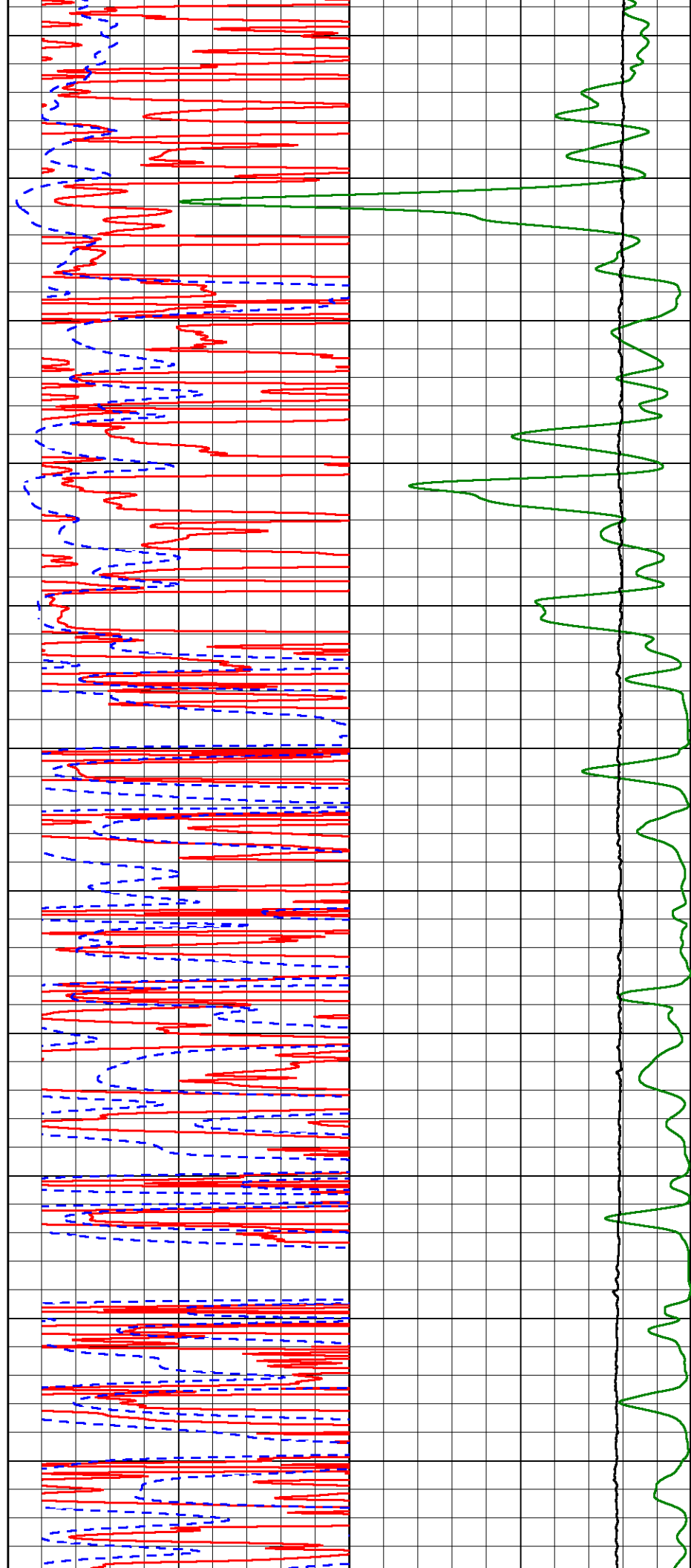
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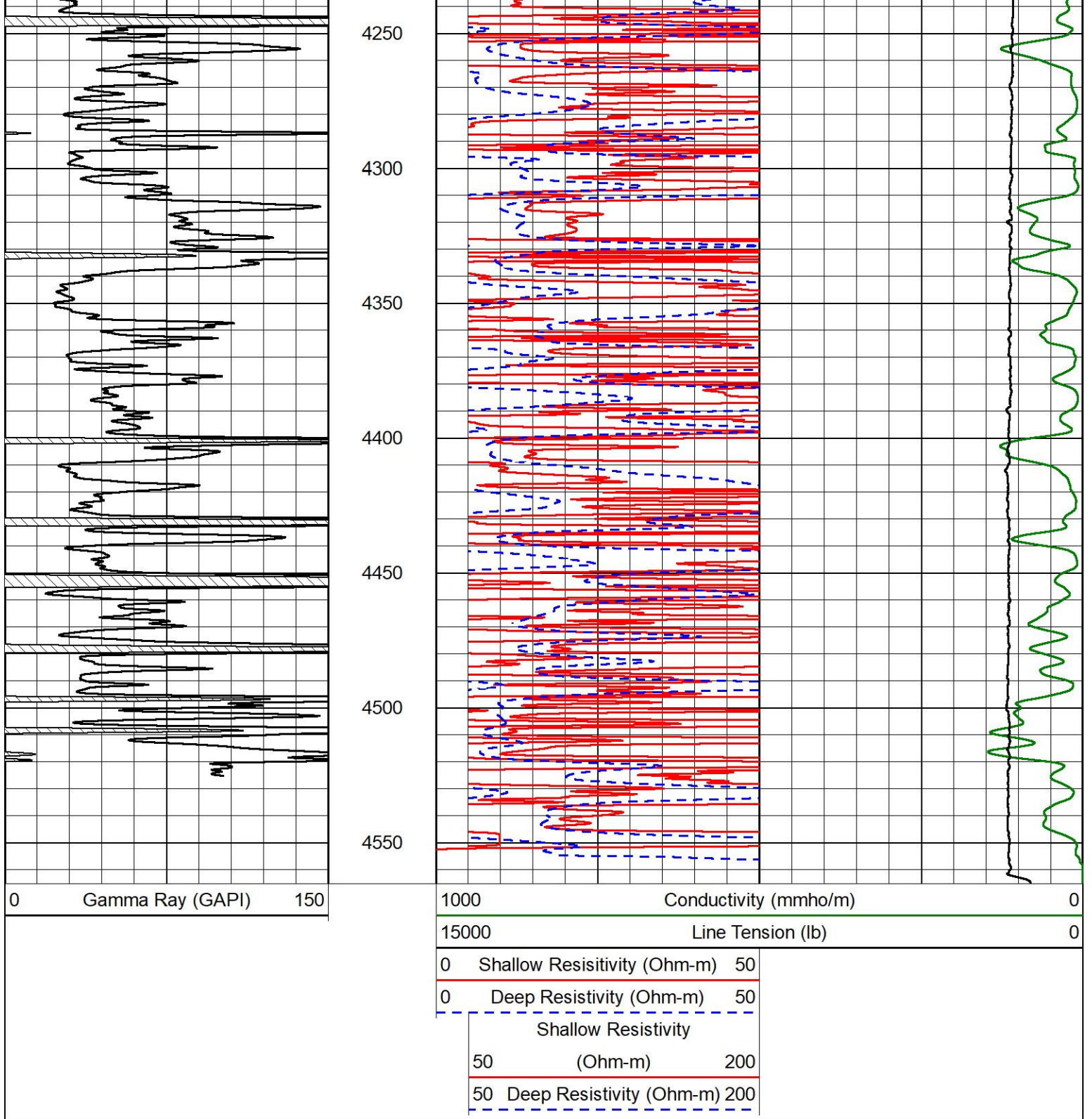
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4100

4150

4200





# ANHYDRITE SECTION

## MAIN PASS

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 Dataset Pathname stkml/pass3.4  
 Presentation Format \_dil  
 Dataset Creation Tue Feb 01 22:36:36 2022  
 Charted by Depth in Feet scaled 1:240

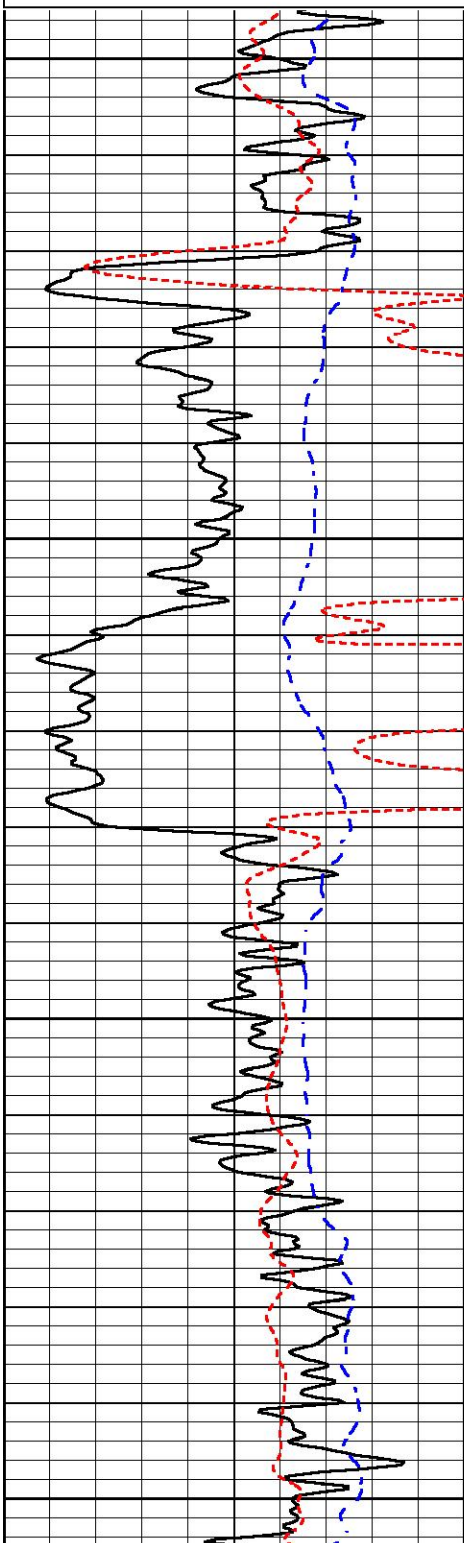
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-160	RXORT	40	0.2	Medium Resistivity (Ohm-m)	2000



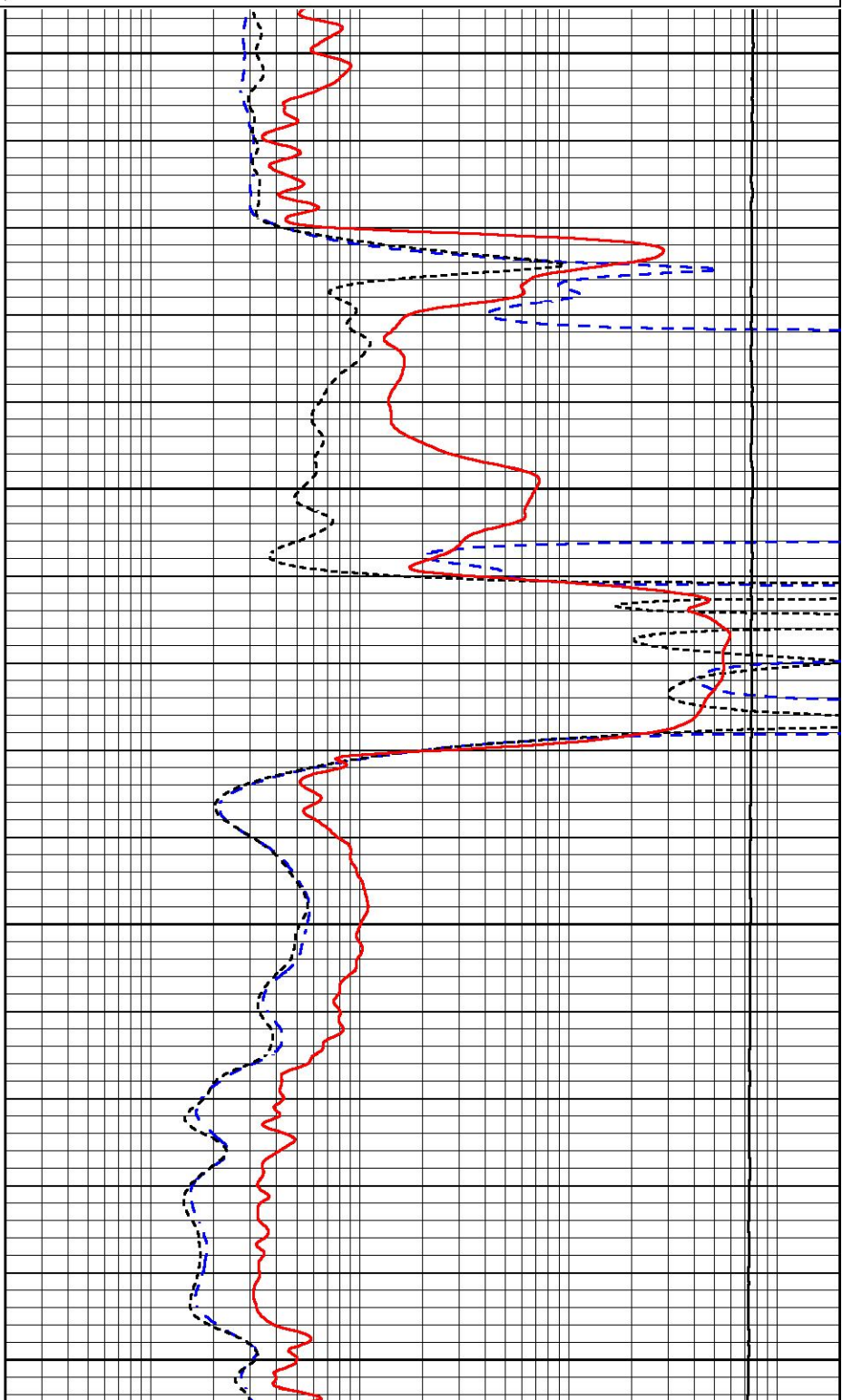
-200 SP (mV) 0

0.2 Shallow Resistivity (Ohm-m) 2000

10000 Line Tension (lb) 0



2200  
2250  
2300  
2350



0 Gamma Ray (GAPI) 150

0.2 Deep Resistivity (Ohm-m) 2000

-160 RXORT 40

0.2 Medium Resistivity (Ohm-m) 2000

-200 SP (mV) 0

0.2 Shallow Resistivity (Ohm-m) 2000

10000 Line Tension (lb) 0



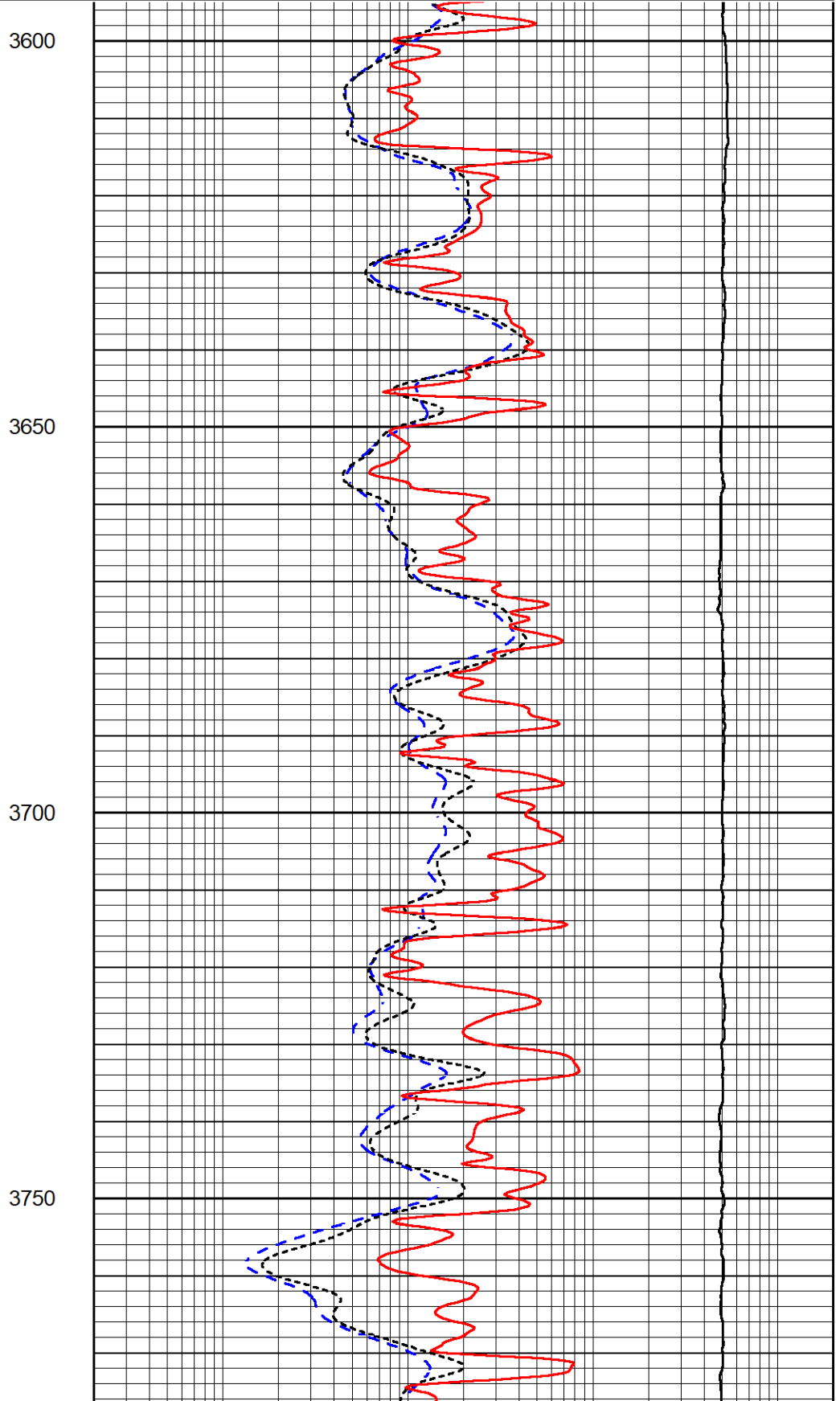
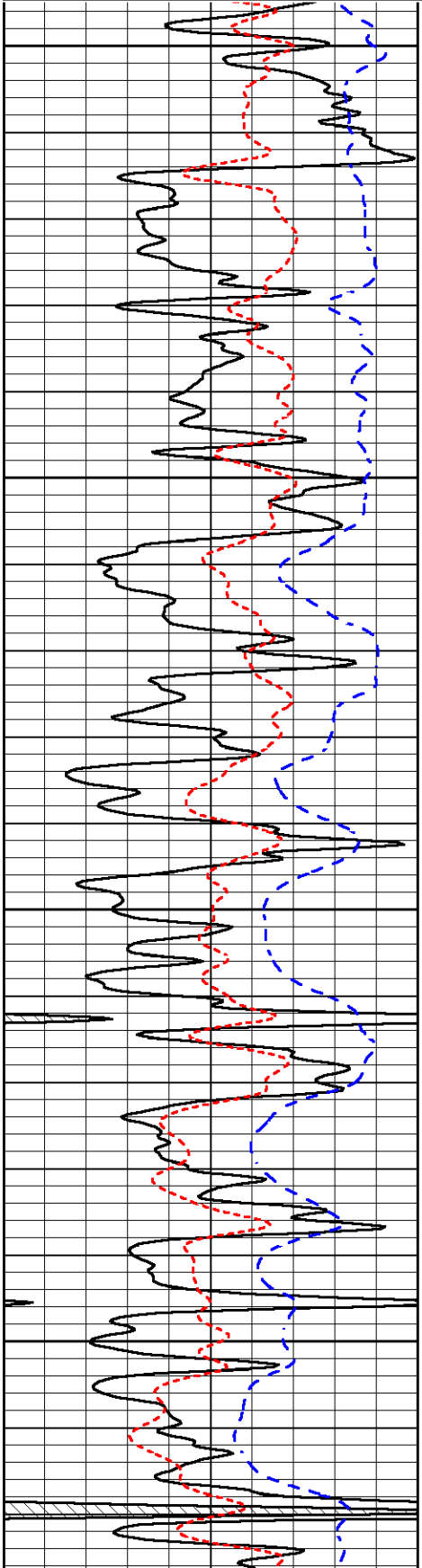
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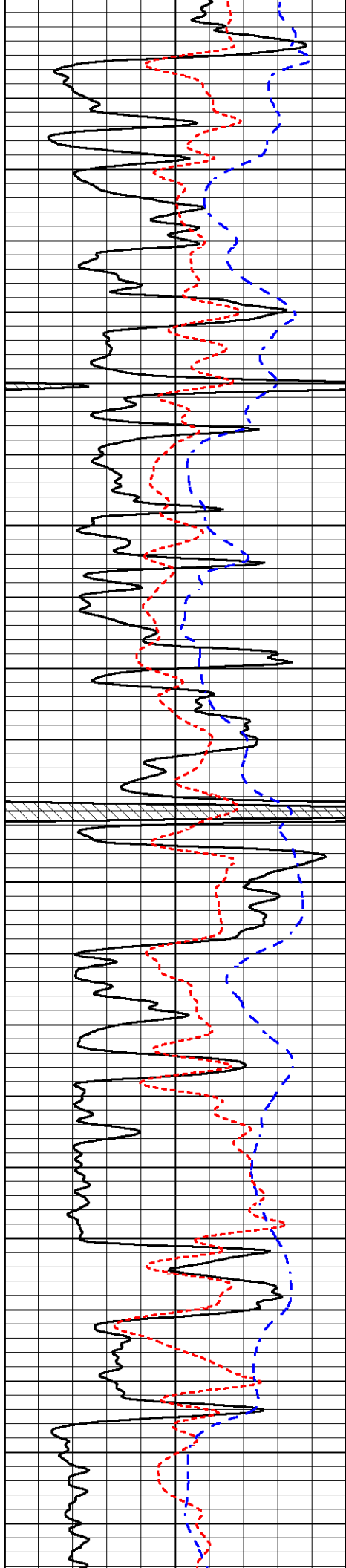
MAIN PASS

Database File citade\_ramsey 2-30.db  
 Dataset Pathname stkml/pass3.1  
 Presentation Format \_dil  
 Dataset Creation Tue Feb 01 22:28:46 2022  
 Charted by Depth in Feet scaled 1:240

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-160	RXORT	40
-200	SP (mV)	0

0.2	Deep Resistivity (Ohm-m)	2000
0.2	Medium Resistivity (Ohm-m)	2000
0.2	Shallow Resistivity (Ohm-m)	2000
10000	Line Tension (lb)	0



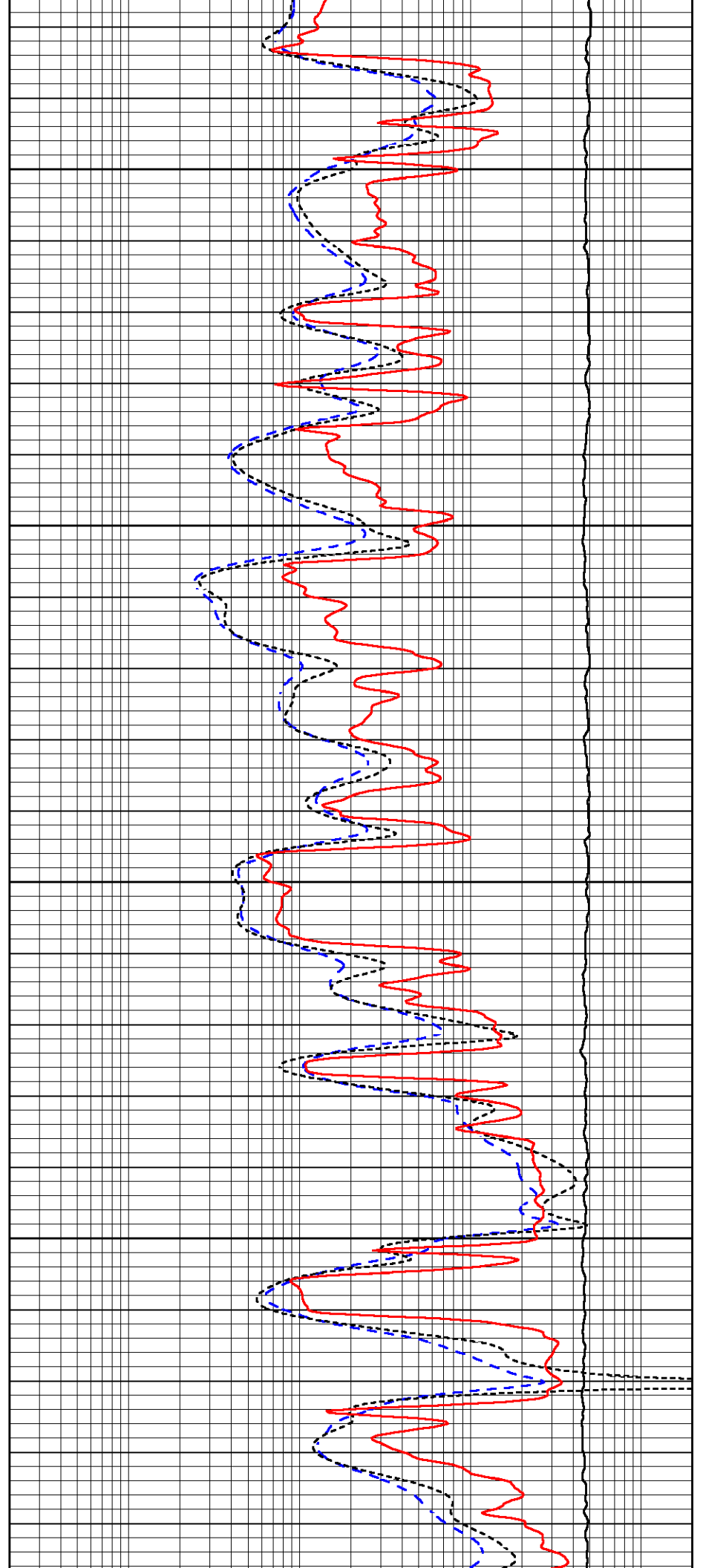


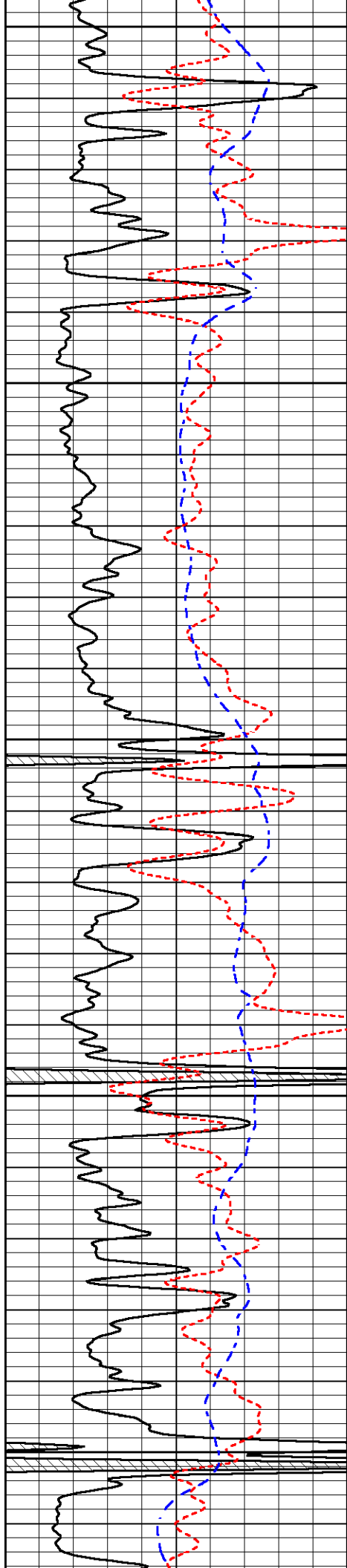
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3850

3900

3950





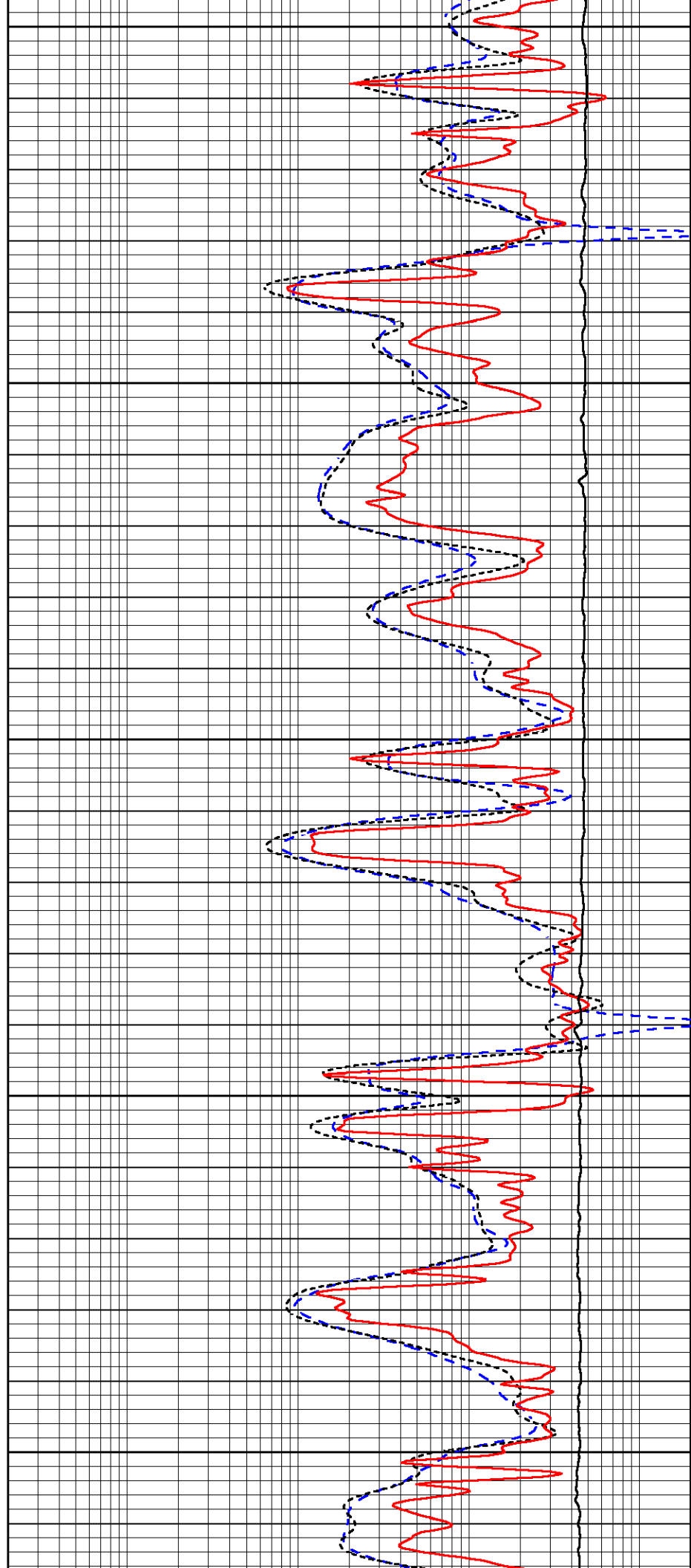
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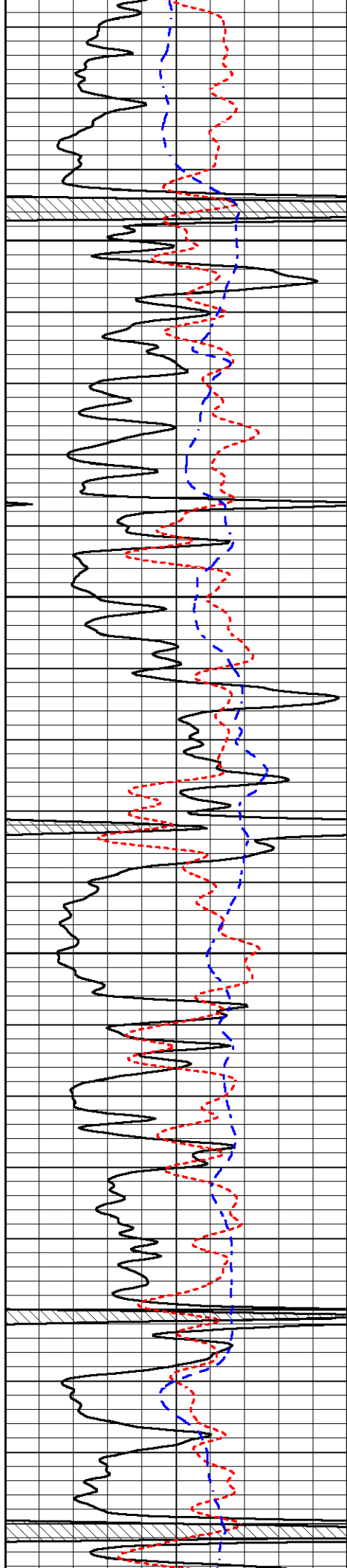
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4150

4200



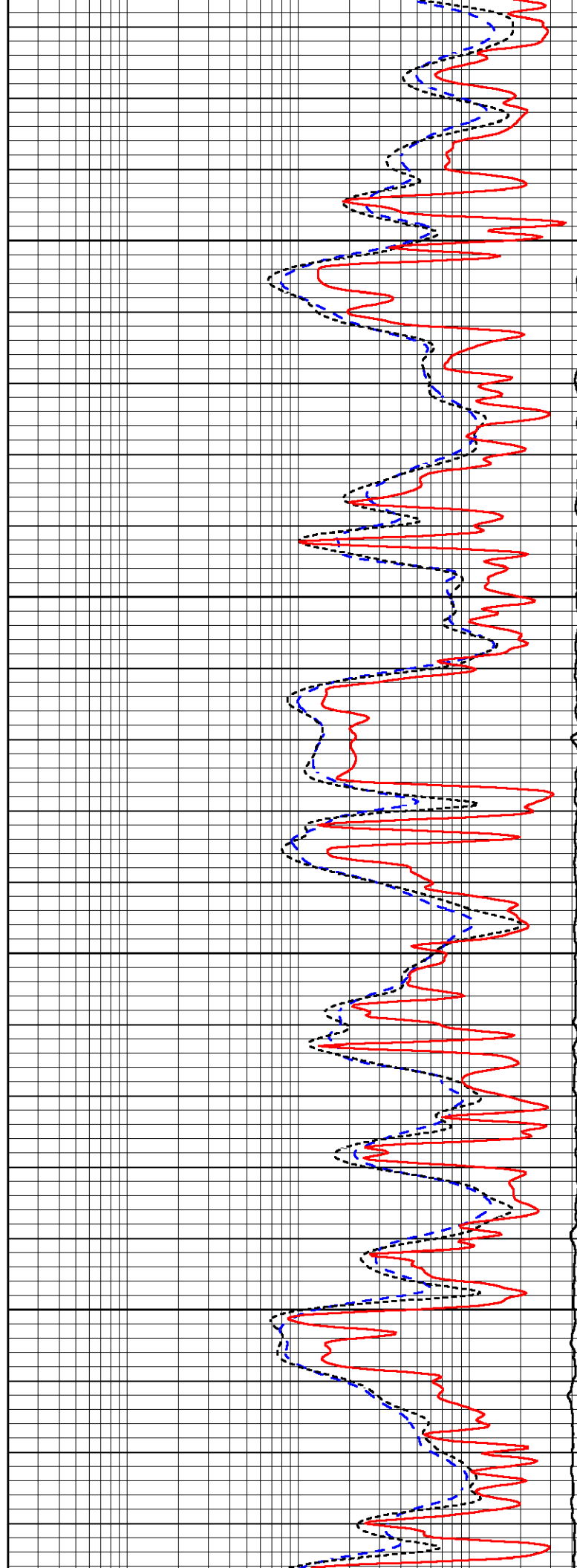


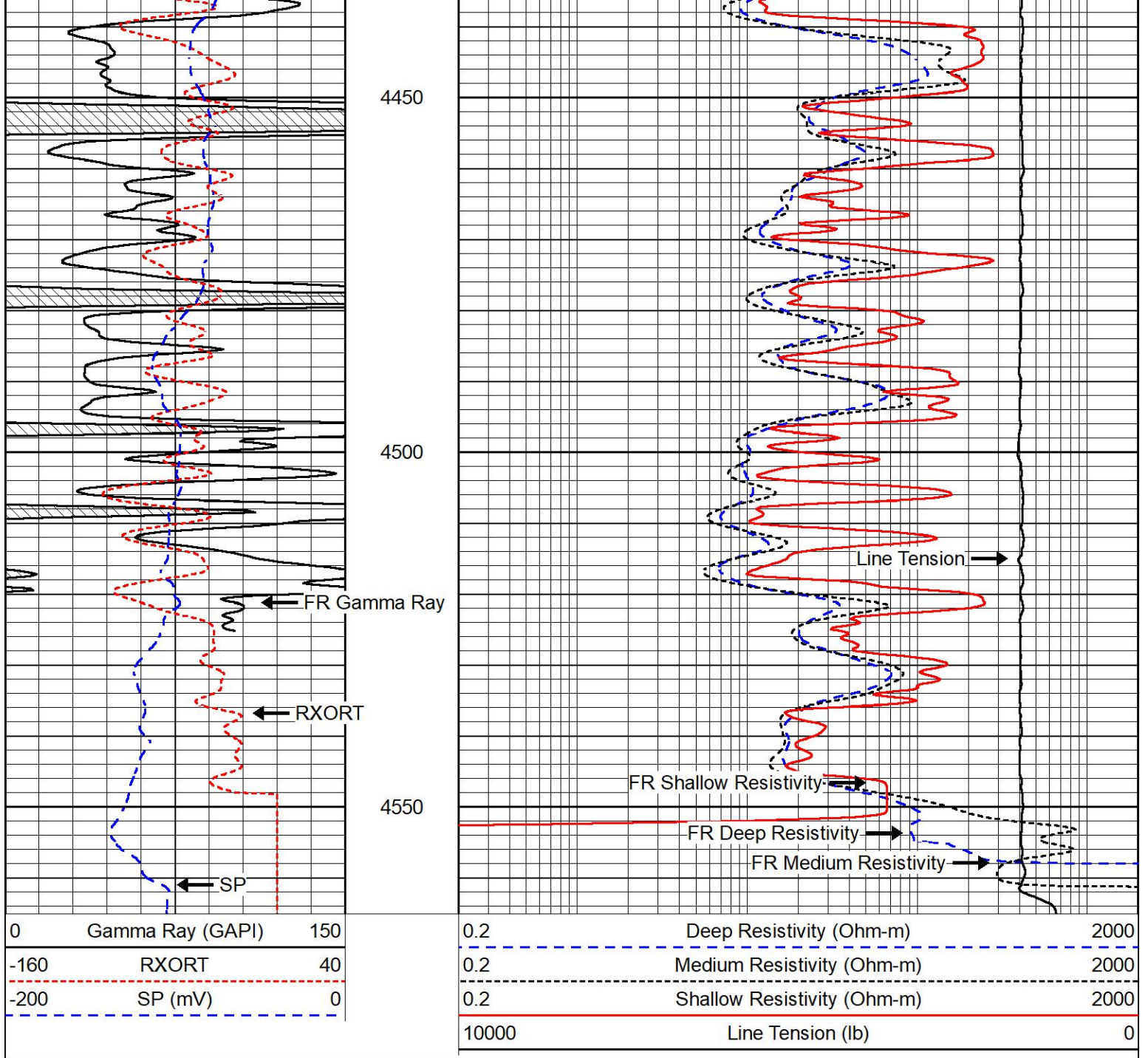
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4400





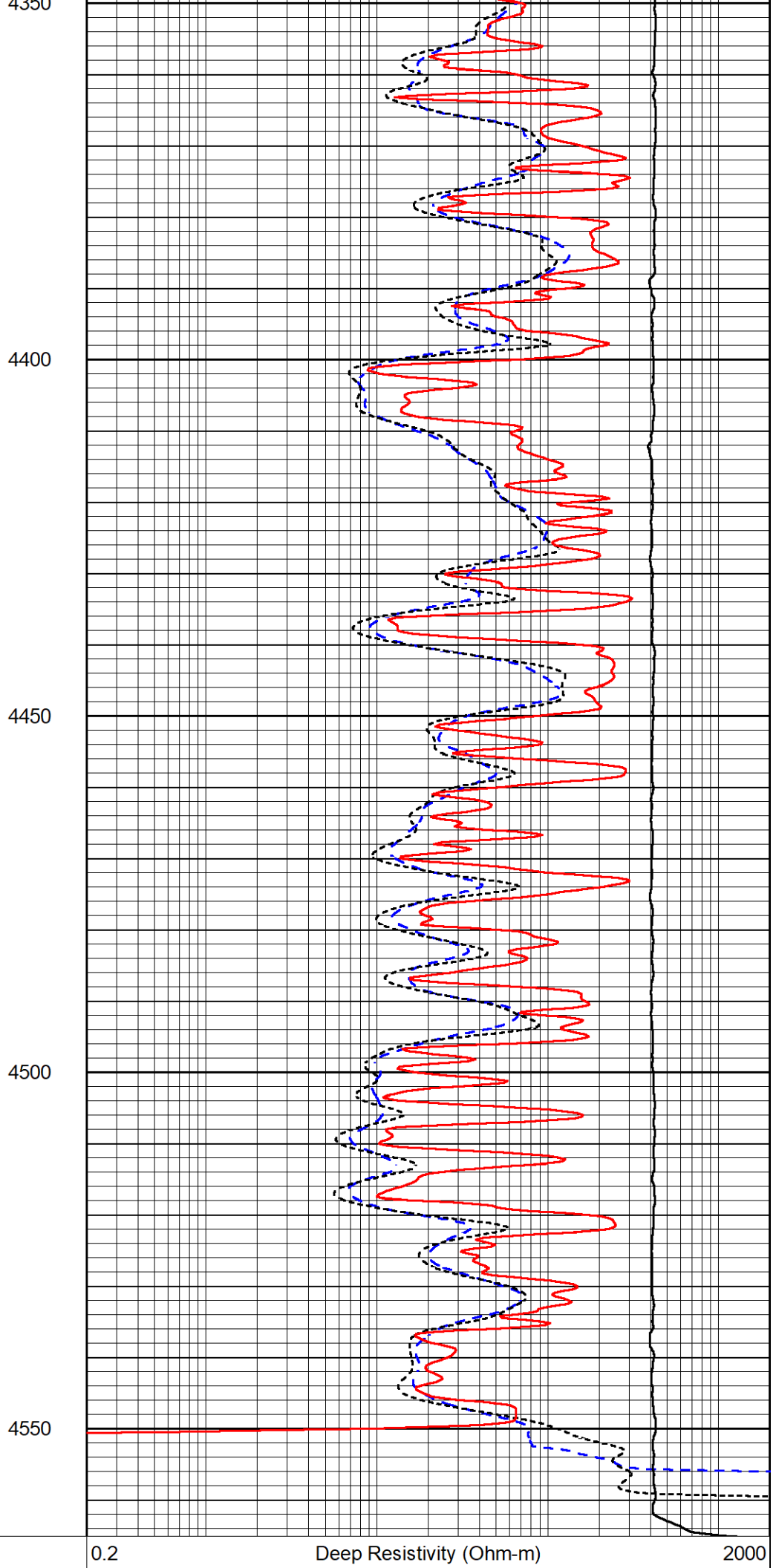
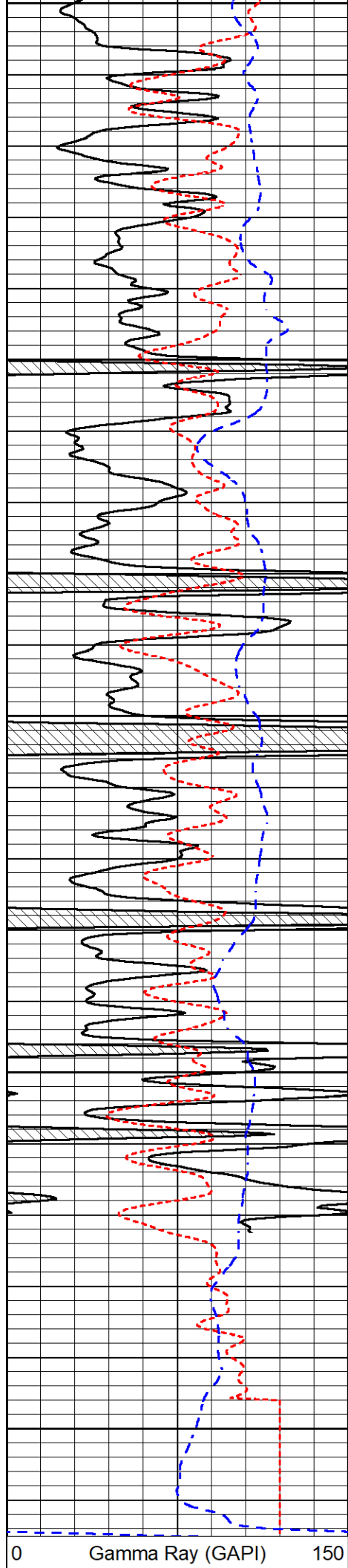
# REPEAT SECTION

## REPEAT PASS

Database File citadel\_ramsey 2-30.db  
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 Presentation Format \_dil  
 Dataset Creation Tue Feb 01 21:52:13 2022  
 Charted by Depth in Feet scaled 1:240

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-160	RXORT	40	0.2	Medium Resistivity (Ohm-m)	2000
-200	SP (mV)	0	0.2	Shallow Resistivity (Ohm-m)	2000
			10000	Line Tension (lb)	0





-160	RXORT	40
-200	SP (mV)	0

0.2	Medium Resistivity (Ohm-m)	2000
0.2	Shallow Resistivity (Ohm-m)	2000
10000	Line Tension (lb)	0

Calibration Report	
Database File	citadel_ramsey 2-30.db
Dataset Pathname	stkml/pass3.14
Dataset Creation	Tue Feb 01 21:54:18 2022

Dual Induction Calibration Report

Serial-Model:	501 HT-M&W
Surface Cal Performed:	Mon Jan 24 19:13:55 2022

Loop:	Readings		References			Results	
	Air	Loop	Air	Loop		m	b
Deep	83.639	487.104	0.000	183.000	mmho/m	0.420	-34.500
Medium	113.335	1585.690	0.000	442.000	mmho/m	0.300	-33.000

Microlog Calibration Report

Serial-Model:	402-PSIML
Performed:	Mon Jan 24 20:31:16 2022

	Readings		References			Results	
	Zero	Cal	Zero	Cal		m	b
Normal	0.0000	1.0000	0.0000	1.0000	Ohm-m	38000.0000	-2.5000
Inverse	0.0000	1.0000	0.0000	1.0000	Ohm-m	40000.0000	-2.0000
Caliper	1.0052	1.0858	5.0000	16.5000	in	125.0000	-123.8000

Compensated Density Calibration Report

Serial-Model:	305-05-M&W
Source #:	20762B
Master Calibration Performed:	Mon Jan 24 19:14:33 2022

Master Calibration						
	Density			Far Detector	Near Detector	
Magnesium	1.755	g/cc		8758.11	9709.36	cps
Aluminum	2.630	g/cc		1513.14	5652.54	cps
	Spine Angle = 72.88			Density/Spine Ratio = 0.476		
	Size			Reading		
Small Ring	4.00	in		1.75		
Large Ring	14.00	in		1.38		

Compensated Neutron Calibration Report

Serial-Model:	207-MW-M&W
Source #:	100046B
Master Calibration Performed:	Mon Nov 29 15:06:24 2021



Master Calibration

Detector	Readings	Target	Normalization
Short Space	6240.00 cps	1000.00 cps	1.6025
Long Space	460.00 cps	1000.00 cps	1.9500

Gamma Ray Calibration Report

Serial Number:	101	
Tool Model:	M&W	
Performed:	Mon Jan 24 19:14:46 2022	
Calibrator Value:	500.0	GAPI
Background Reading:	24.0	cps
Calibrator Reading:	637.0	cps
Sensitivity:	0.5500	GAPI/cps



Company	Citadel Oil, LLC
Well	Ramsey #2-30
Field	Danny Northeast
County	Lane
State	Kansas



MIDWEST WIRELINE

# DUAL COMP POROSITY LOG

Company Citadel Oil, LLC  
 Well Ramsey #2-30  
 Field Danny Northeast  
 County Lane  
 State Kansas

Company Citadel Oil, LLC  
 Well Ramsey #2-30  
 Field Danny Northeast  
 County Lane State Kansas

Location: API #: 15-101-22666-00-00  
 808 FNL 2685 FEL  
 SEC 30 TWP 17S RGE 30W  
 Permanent Datum Ground Level Elevation 2894  
 Log Measured From Kelly Bushing  
 Drilling Measured From Kelly Bushing  
 Other Services  
 DIL/MEL  
 K.B. 2904  
 D.F. G.L. 2894

Date	2/1/2022						
Run Number	One						
Type Log	CNL/CDL						
Depth Driller	4560						
Depth Logger	4562						
Bottom Logged Interval	4533						
Top Logged Interval	3600						
Type Fluid In Hole	Chemical						
Salinity, PPM CL	3500						
Density	9.1						
Level	Full						
Max. Rec. Temp. F	122						
Operating Rig Time	3 Hours						
Equipment -- Location	P-24 Hays						
Recorded By	D. Schmidt						
Witnessed By	Vern Schrag						
Borehole Record							
Run No.	Bit	From	To	Size	Wgt.	From	To
One	12.25	0	268	8.625	23	0	268
Two	7.875	268	TD				
Casing Record							

<<< Fold Here >>>

All interpretations are opinions based on inferences from electrical or other measurements and Midwest Wireline Services, LLC cannot and does not guarantee the accuracy or correctness of any interpretation, and Midwest Wireline Services, LLC will not be liable or responsible for any loss, costs, damages, or expenses incurred or sustained by anyone resulting from any interpretation made by any of our officers, agents or employees.

Comments

N/A DENOTES NOT AVAILABLE OR NON-APPLICABLE.

Healy,  
 West to Bison Rd, South to 200 Rd, 1 1/2 West,  
 South into

Log Measured From: Kelly Bushing 10 Ft. Above Permanent Datum

THANK YOU FOR USING MIDWEST WIRELINE LLC  
 785-625-3858

Your Midwest Wireline Crew		This Log Record Was Witnessed By	
Engineer: D. Schmidt	Operator:	Primary Witness: Vern Schrag	Secondary Witness:
Operator:	Operator:	Secondary Witness:	Secondary Witness:
Operator:		Secondary Witness:	

Sensor	Offset (ft)	Schematic	Description	Length (ft)	O.D. (in)	Weight (lb)
GR	40.33		GR-M&W (101)	3.00	3.50	50.00
CNLSC CNSSC	37.23 36.48		CNT-M&W (207-MW)	5.00	3.50	100.00
LSD DCAL SSD	28.18 28.17 27.68		CDL-M&W (305-05)	8.50	4.00	250.00
MCAL MI MN	19.58 19.58 19.58		ML-PSIML (402)	7.58	4.00	65.00
RLL3F RLL3	15.50 15.50					
CILD	8.33		DIL-M&W (501 HT)	18.25	3.50	220.00
CILM	4.50					
SP	0.20					

Dataset: citadel\_ramsey 2-30.db: field/well/stkml/pass3.14  
 Total length: 42.33 ft  
 Total weight: 685.00 lb  
 O.D.: 4.00 in

# Log Variables

DatabaseC:\ProgramData\Warrior\Data\citadel\_ramsey 2-30.db  
 Dataset field/well/stkml/pass3.14/\_vars\_

## Top - Bottom

A	BOREID in	BOTTEMP degF	CASEOD in	CASETHCK in	FLUIDDEN g/cc	M	MATRXDEN g/cc
1	7.875	122	4.5	0	1	2	2.71
NPORSEL	PERFS	SNDERR mmho/m	SNDERRM mmho/m	SPSHIFT mV	SRFTEMP degF	SZCOR	TDEPTH ft
Limestone	0	0	0	170	30	Off	4562

## Variable Description

A : Cement Factor (a)  
 BOREID : Borehole I.D.  
 BOTTEMP : Bottom Hole Temperature  
 CASEOD : Casing O.D.  
 CASETHCK : Casing Thickness  
 FLUIDDEN : Fluid Density  
 M : Cement Exp (m)  
 MATRXDEN : Matrix Density

NPORSEL : Neutron Porosity Curve Select  
 PERFS : Perforation Flag  
 SNDERR : Deep Sonde Error Correction  
 SNDERRM : Medium Sonde Error Correction  
 SPSHIFT : S.P. Baseline Offset  
 SRFTEMP : Surface Temperature  
 SZCOR : CN Size Cor. ?  
 TDEPTH : Total Depth



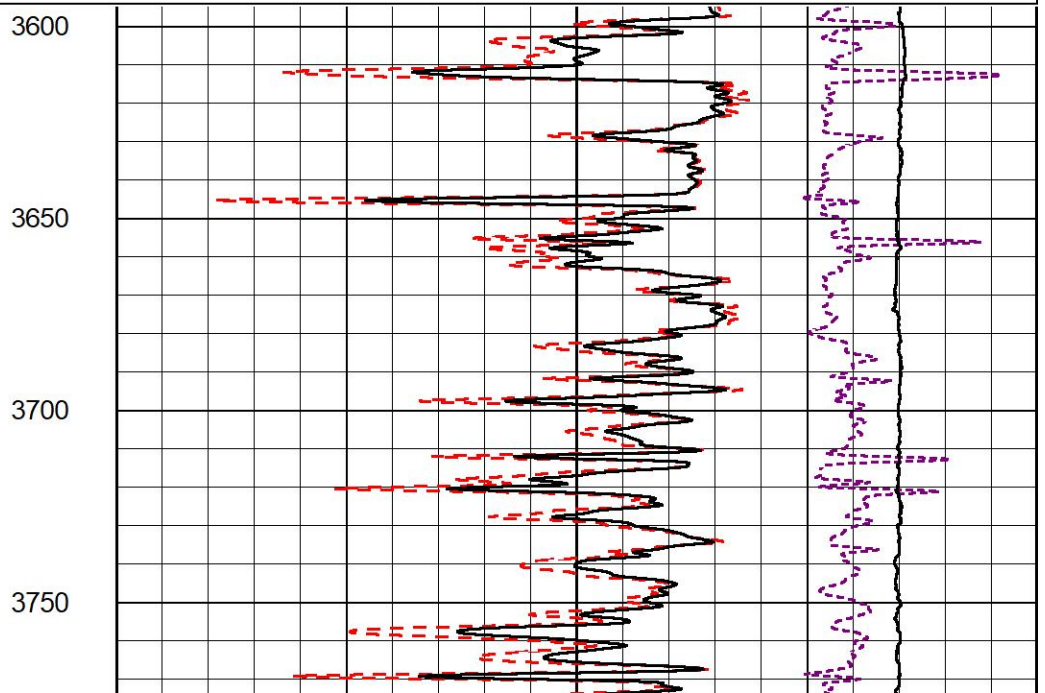
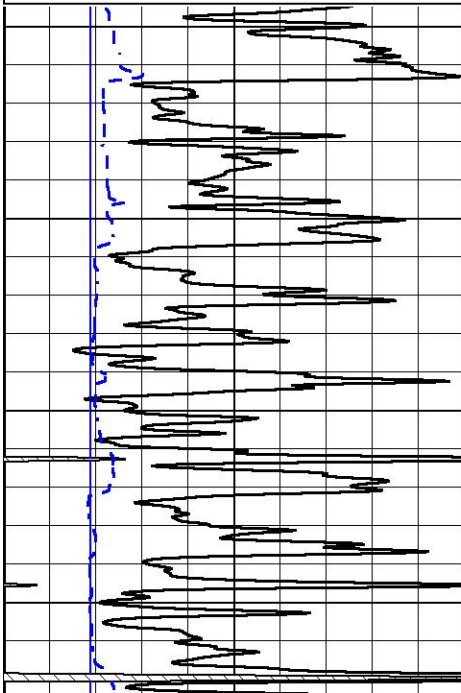
## 2" SCALE BULK DENSITY

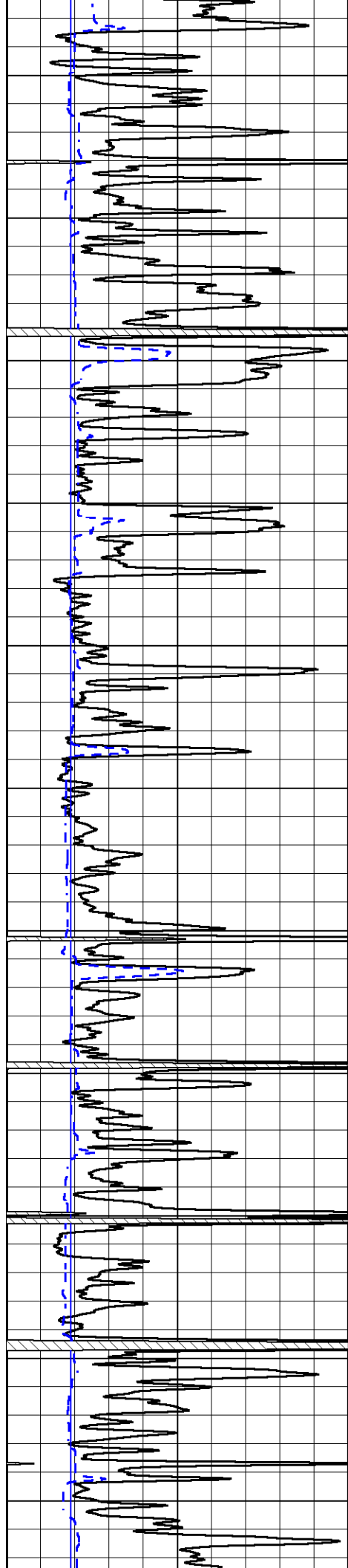
### MAIN PASS

Database File citadel\_ramsey 2-30.db  
 Dataset Pathname stkml/pass3.2  
 Presentation Format \_cdl  
 Dataset Creation Tue Feb 01 22:36:09 2022  
 Charted by Depth in Feet scaled 1:600

0	Gamma Ray (GAPI)	150
6	Caliper (in)	16

30	Compensated Density (pu)	-10
2	Bulk Density (g/cc)	3
10000	Line Tension (lb)	0
-0.25	Correction (g/cc)	0.25





3800

3850

3900

3950

4000

4050

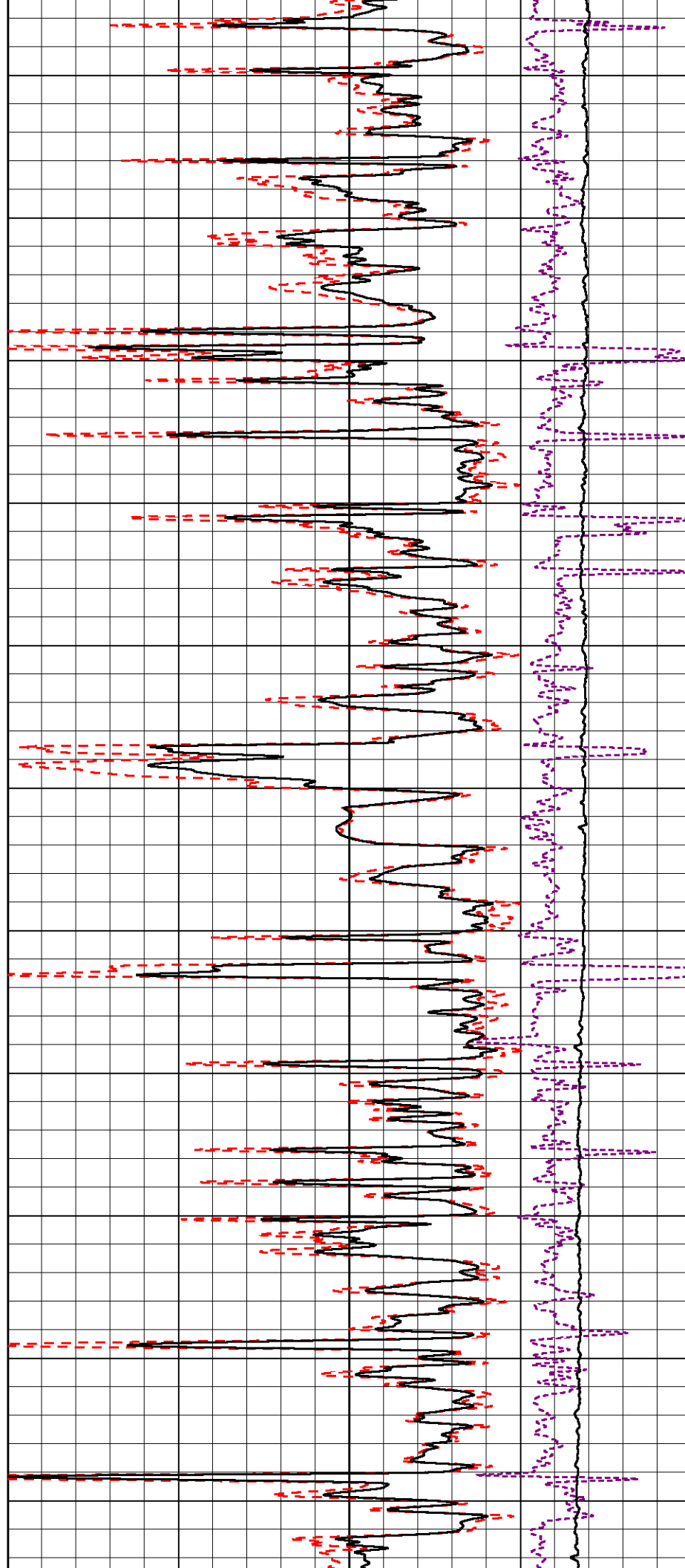
4100

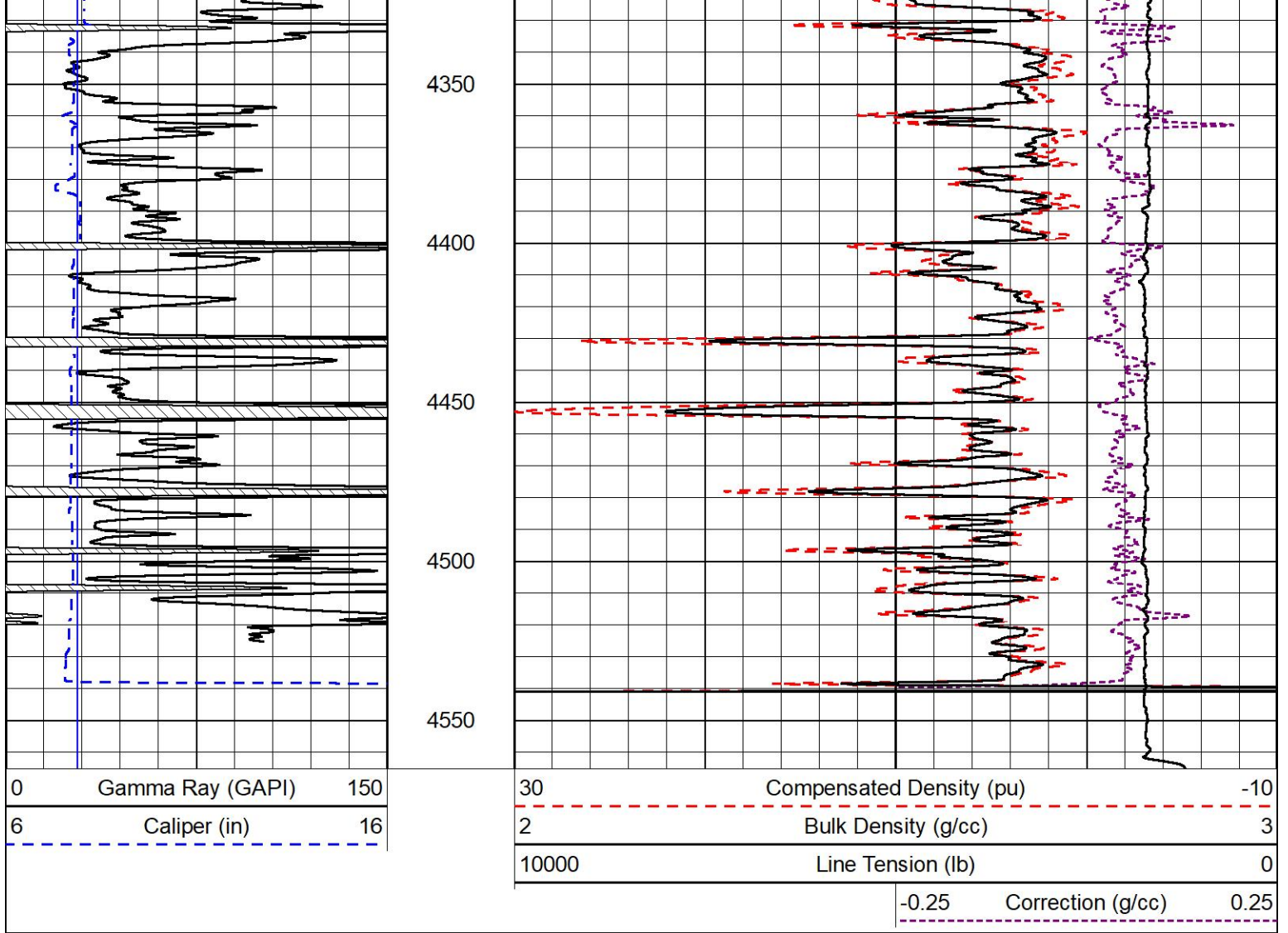
4150

4200

4250

4300

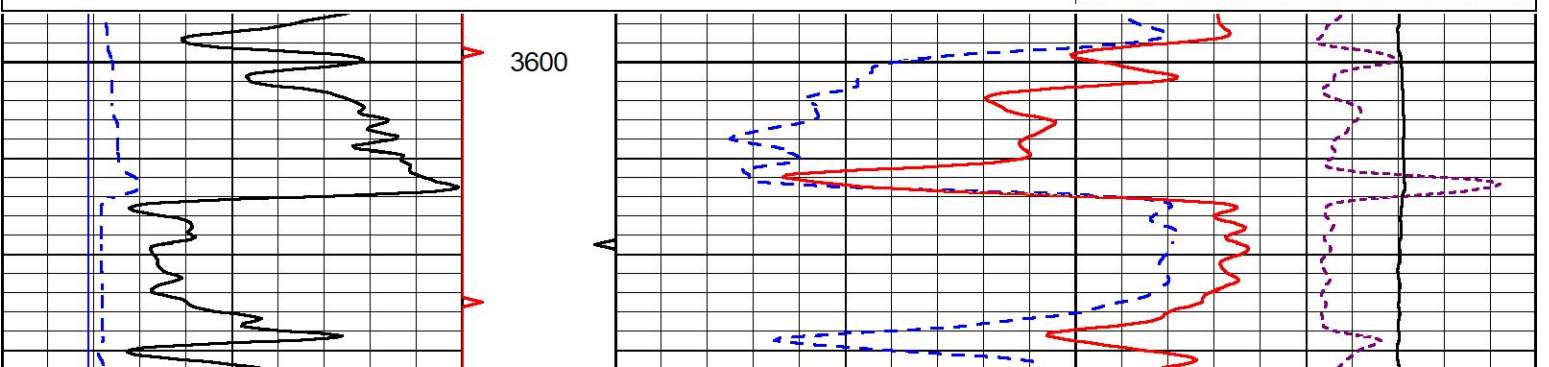
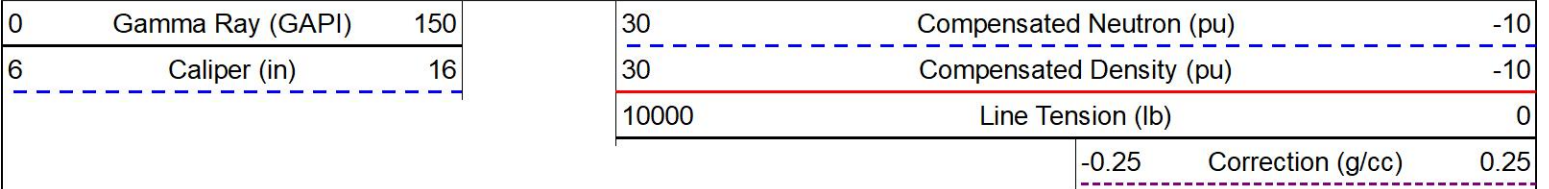


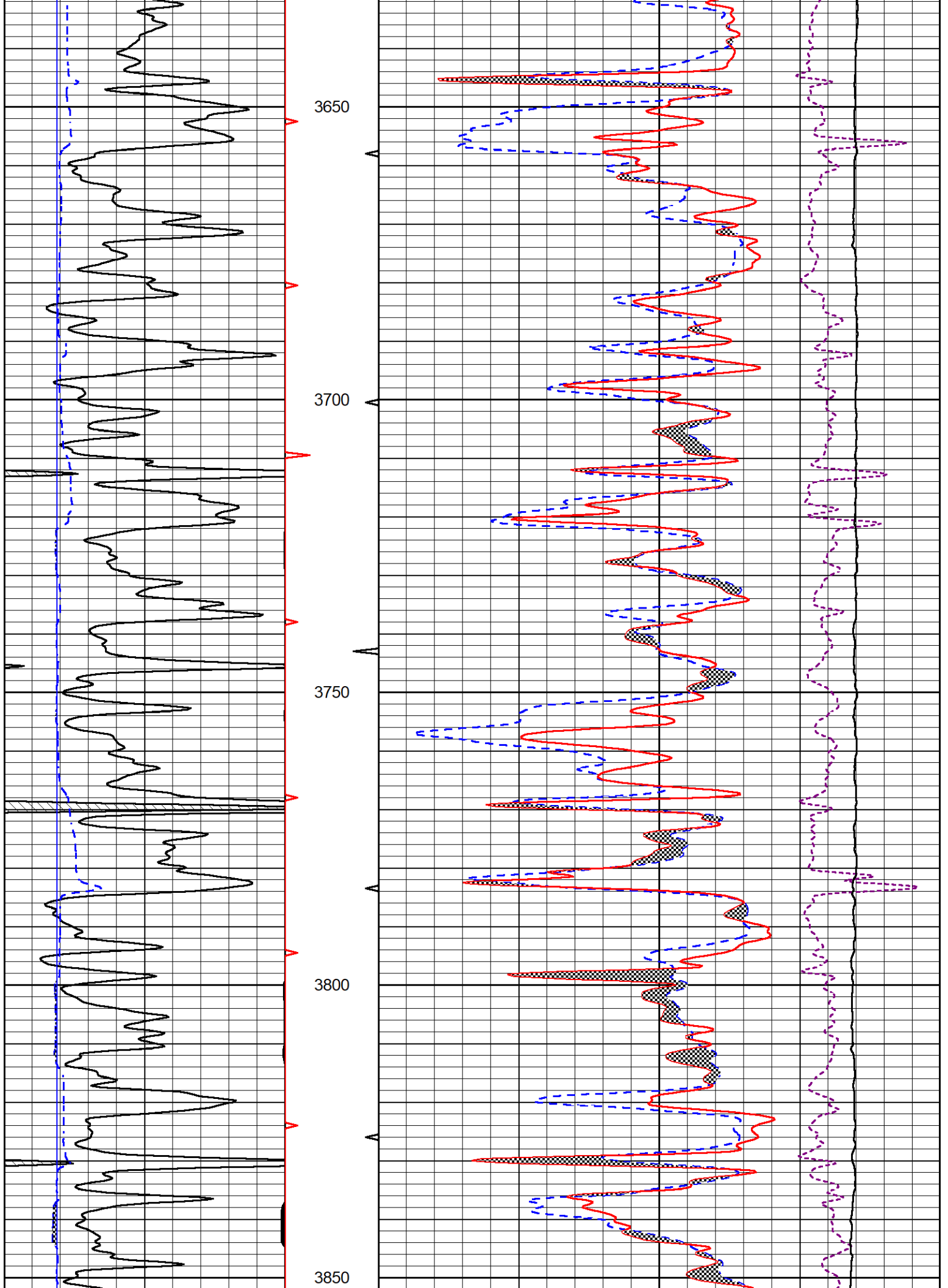


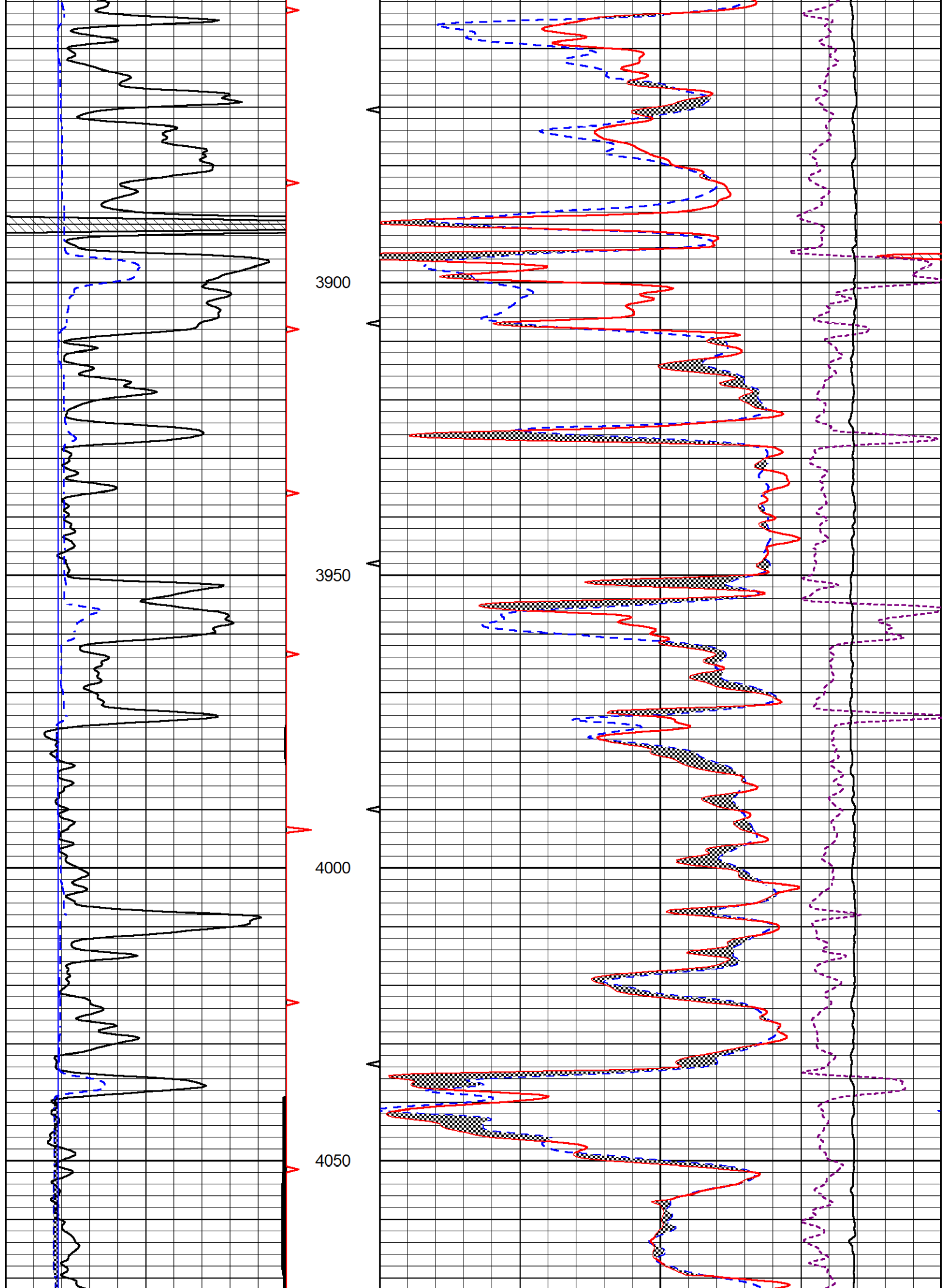
# DETAIL SECTION

## MAIN PASS

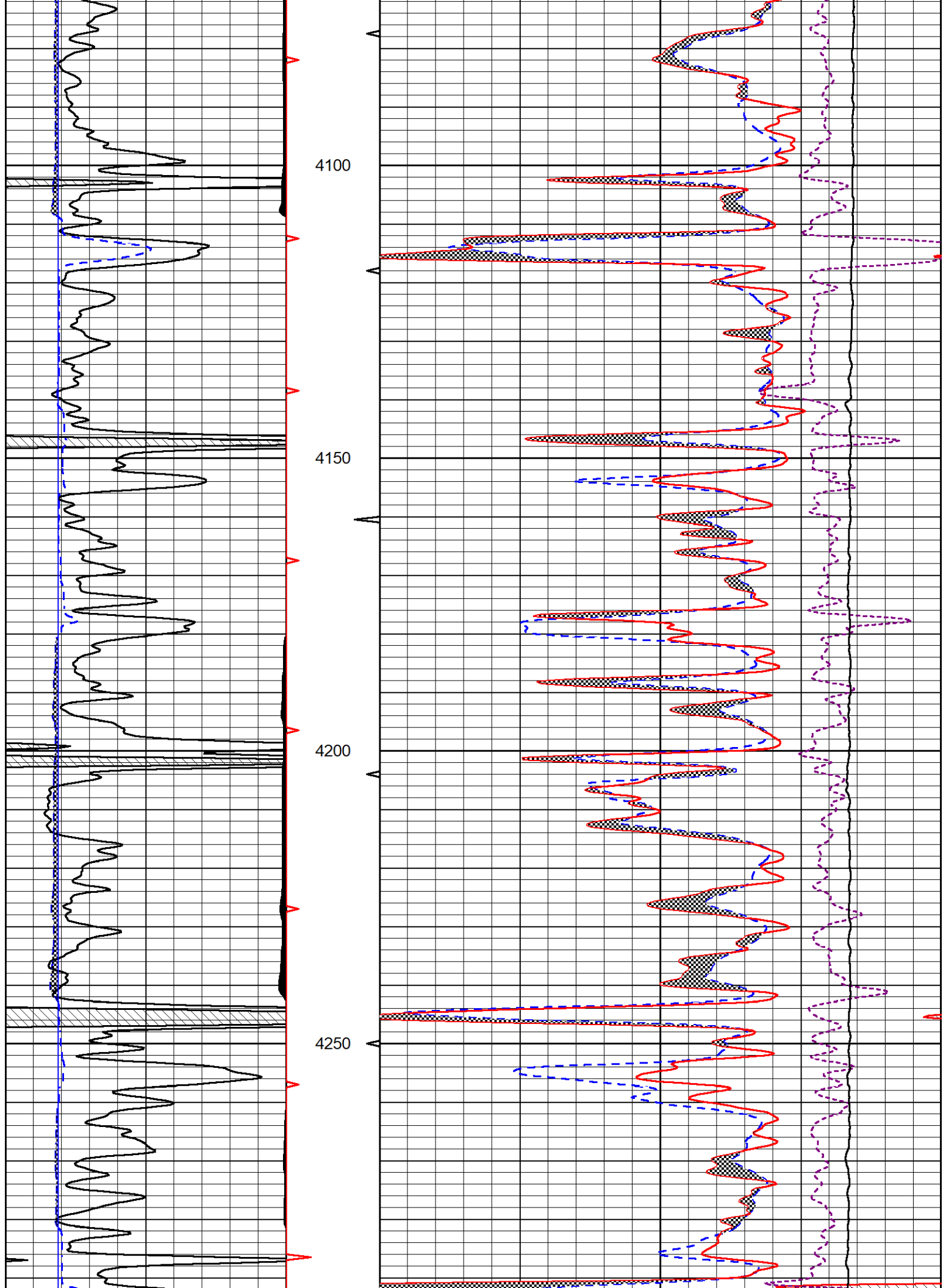
Database File citadel\_ramsey 2-30.db  
 Dataset Pathname stkml/pass3.1  
 Presentation Format \_CNDLS~1  
 Dataset Creation Tue Feb 01 22:28:46 2022  
 Charted by Depth in Feet scaled 1:240

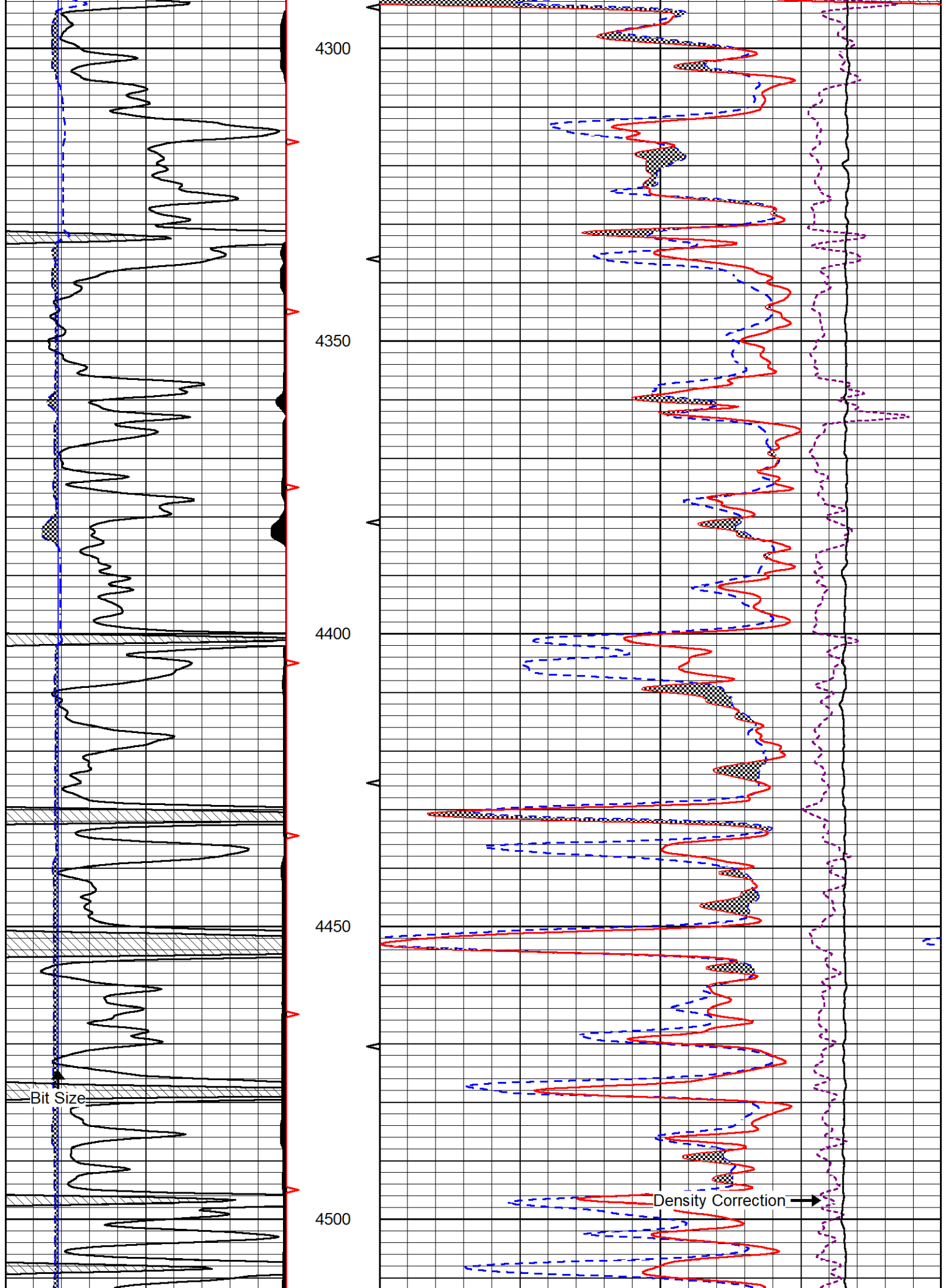


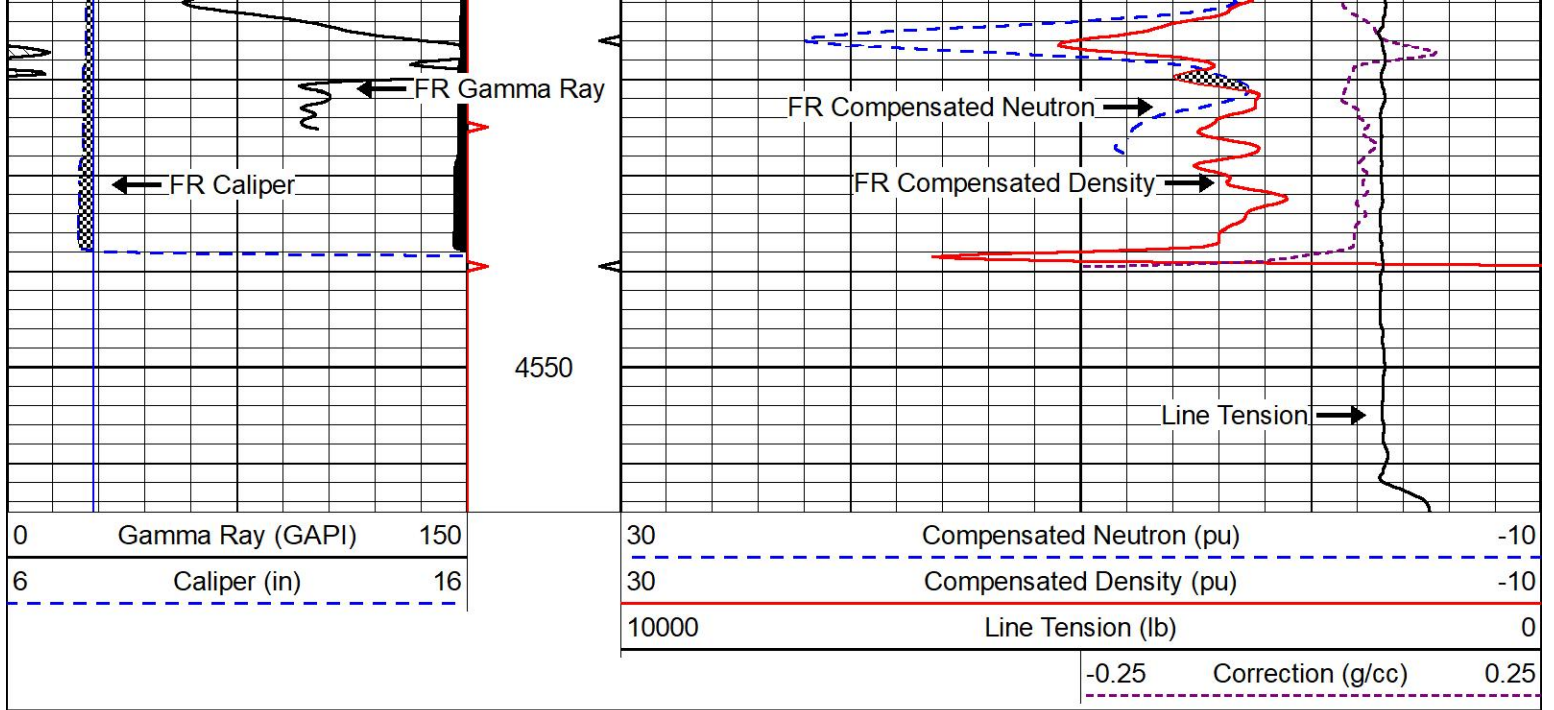










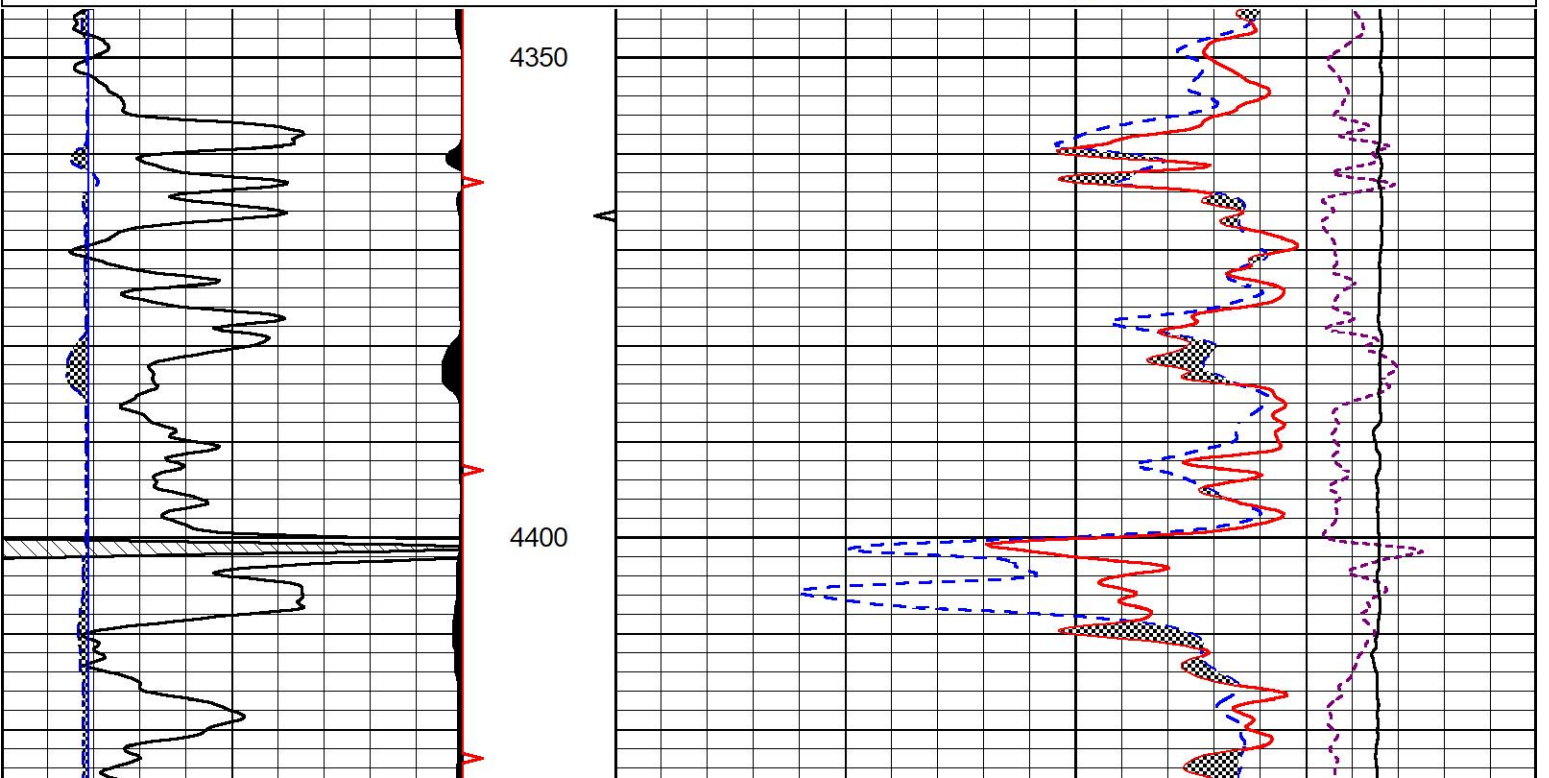
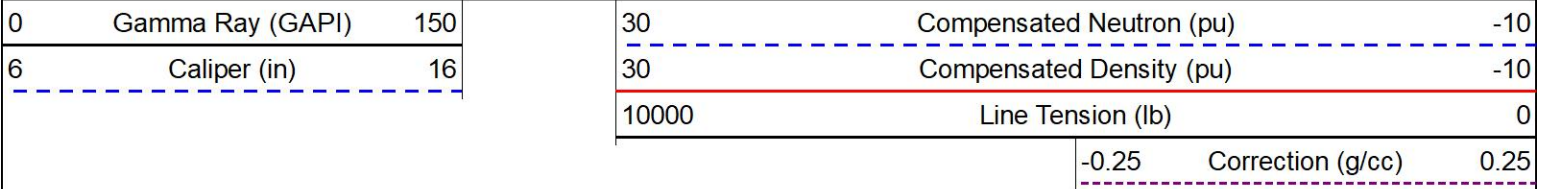


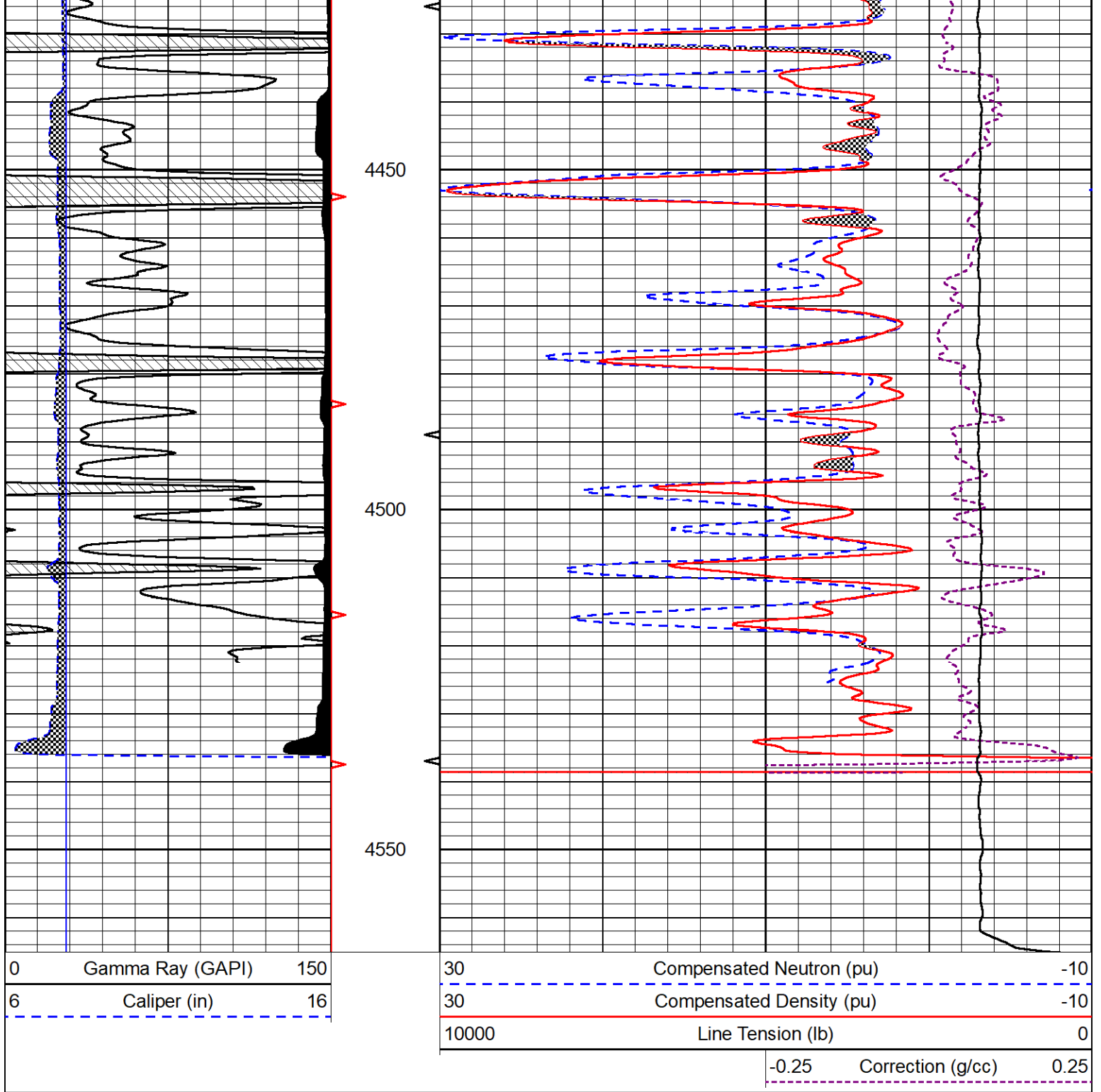
MIDWEST WIRELINE

## REPEAT SECTION

### REPEAT PASS

Database File      citadel\_ramsey 2-30.db  
 Dataset Pathname    stkml/pass2.1  
 Presentation Format    \_CNDLS~1  
 Dataset Creation      Tue Feb 01 21:52:13 2022  
 Charted by            Depth in Feet scaled 1:240





### Calibration Report

Database File citadel\_ramsey 2-30.db  
 Dataset Pathname stkml/pass3.14  
 Dataset Creation Tue Feb 01 21:54:18 2022

### Dual Induction Calibration Report

Serial-Model: 501 HT-M&W  
 Surface Cal Performed: Mon Jan 24 19:13:55 2022

Loop:	Readings		References		Results	
	Air	Loop	Air	Loop	m	b
Deep	83.639	487.104	0.000	183.000	0.420	-34.500

Microlog Calibration Report

Serial-Model: 402-PSIML  
 Performed: Mon Jan 24 20:31:16 2022

	Readings		References			Results	
	Zero	Cal	Zero	Cal		m	b
Normal	0.0000	1.0000	0.0000	1.0000	Ohm-m	38000.0000	-2.5000
Inverse	0.0000	1.0000	0.0000	1.0000	Ohm-m	40000.0000	-2.0000
Caliper	1.0052	1.0858	5.0000	16.5000	in	125.0000	-123.8000

Compensated Density Calibration Report

Serial-Model: 305-05-M&W  
 Source #: 20762B  
 Master Calibration Performed: Mon Jan 24 19:14:33 2022

Master Calibration

	Density		Far Detector	Near Detector	
Magnesium	1.755	g/cc	8758.11	9709.36	cps
Aluminum	2.630	g/cc	1513.14	5652.54	cps
Spine Angle = 72.88		Density/Spine Ratio = 0.476			
	Size		Reading		
Small Ring	4.00	in	1.75		
Large Ring	14.00	in	1.38		

Compensated Neutron Calibration Report

Serial-Model: 207-MW-M&W  
 Source #: 100046B  
 Master Calibration Performed: Mon Nov 29 15:06:24 2021

Master Calibration

Detector	Readings	Target	Normalization
Short Space	6240.00 cps	1000.00 cps	1.6025
Long Space	460.00 cps	1000.00 cps	1.9500

Gamma Ray Calibration Report

Serial Number: 101  
 Tool Model: M&W  
 Performed: Mon Jan 24 19:14:46 2022

Calibrator Value: 500.0 GAPI

Background Reading: 24.0 cps  
 Calibrator Reading: 637.0 cps

Sensitivity: 0.5500 GAPI/cps



Company	Citadel Oil, LLC
Well	Ramsey #2-30
Field	Danny Northeast
County	Lane
State	Kansas



MIDWEST WIRELINE

# MICRORESISTIVITY LOG

Company Citadel Oil, LLC  
 Well Ramsey #2-30  
 Field Danny Northeast  
 County Lane  
 State Kansas

Company Citadel Oil, LLC  
 Well Ramsey #2-30  
 Field Danny Northeast  
 County Lane State Kansas

Location: API #: 15-101-22666-00-00  
 808 FNL 2685 FEL  
 SEC 30 TWP 17S RGE 30W  
 Permanent Datum Ground Level Elevation 2894  
 Log Measured From Kelly Bushing  
 Drilling Measured From Kelly Bushing  
 Other Services  
 CNL/CDL  
 DIL  
 Elevation  
 K.B. 2904  
 D.F.  
 G.L. 2894

Date	2/1/2022
Run Number	One
Depth Driller	4560
Depth Logger	4562
Bottom Logged Interval	4561
Top Log Interval	3600
Casing Driller	8.625 @ 268
Casing Logger	268
Bit Size	7.875
Type Fluid in Hole	Chemical
Salinity, ppm CL	3500
Density / Viscosity	9.1 54
pH / Fluid Loss	10.5 8.8
Source of Sample	FLOWLINE
Rm @ Meas. Temp	0.55 @ 50
Rmt @ Meas. Temp	0.41 @ 50
Rmc @ Meas. Temp	0.74 @ 50
Source of Rmf / Rmc	CHARTS
Rm @ BHT	0.23 @ 122
Operating Rig Time	3 Hours
Max Rec. Temp. F	122
Equipment Number	P-24
Location	Hays
Recorded By	D. Schmidt
Witnessed By	Vern Schrag

<<< Fold Here >>>

All interpretations are opinions based on inferences from electrical or other measurements and Midwest Wireline LLC cannot and does not guarantee the accuracy or correctness of any interpretation, and Midwest Wireline LLC will not be liable or responsible for any loss, costs, damages, or expenses incurred or sustained by anyone resulting from any interpretation made by any of our officers, agents or employees.

Comments

N/A DENOTES NOT AVAILABLE OR NON-APPLICABLE.

Healy,  
 West to Bison Rd, South to 200 Rd, 1 1/2 West,  
 South into

Log Measured From: Kelly Bushing 10 Ft. Above Permanent Datum

THANK YOU FOR USING MIDWEST WIRELINE LLC  
 785-625-3858

Your Midwest Wireline Crew		This Log Record Was Witnessed By	
Engineer: D. Schmidt	Operator:	Primary Witness: Vern Schrag	Secondary Witness:
Operator:	Operator:	Secondary Witness:	Secondary Witness:
Operator:		Secondary Witness:	

Operator	Offset (ft)	Substrate	Description	Length (ft)	C.D. (in)	Weight (lb)
----------	-------------	-----------	-------------	-------------	-----------	-------------

Sensor	Offset (ft)	Schematic	Description	Length (ft)	O.D. (in)	Weight (lb)
GR	40.33		GR-M&W (101)	3.00	3.50	50.00
CNLSC CNSSC	37.23 36.48		CNT-M&W (207-MW)	5.00	3.50	100.00
LSD DCAL SSD	28.18 28.17 27.68		CDL-M&W (305-05)	8.50	4.00	250.00
MCAL MI MN	19.58 19.58 19.58		ML-PSIML (402)	7.58	4.00	65.00
RLL3F RLL3	15.50 15.50					
CILD	8.33		DIL-M&W (501 HT)	18.25	3.50	220.00
CILM	4.50					
SP	0.20					

Dataset: citadel\_ramsey 2-30.db: field/well/stkml/pass3.14  
 Total length: 42.33 ft  
 Total weight: 685.00 lb  
 O.D.: 4.00 in



# Log Variables

DatabaseC:\ProgramData\Warrior\Data\citadel\_ramsey 2-30.db  
 Dataset field/well/stkml/pass3.14/\_vars\_

## Top - Bottom

A	BOREID in	BOTTEMP degF	CASEOD in	CASETHCK in	FLUIDDEN g/cc	M	MATRXDEN g/cc
1	7.875	122	4.5	0	1	2	2.71
NPORSEL	PERFS	SNDERR mmho/m	SNDERRM mmho/m	SPSHIFT mV	SRFTEMP degF	SZCOR	TDEPTH ft
Limestone	0	0	0	170	30	Off	4562

## Variable Description

A : Cement Factor (a)  
 BOREID : Borehole I.D.  
 BOTTEMP : Bottom Hole Temperature  
 CASEOD : Casing O.D.  
 CASETHCK : Casing Thickness  
 FLUIDDEN : Fluid Density  
 M : Cement Exp (m)  
 MATRXDEN : Matrix Density

NPORSEL : Neutron Porosity Curve Select  
 PERFS : Perforation Flag  
 SNDERR : Deep Sonde Error Correction  
 SNDERRM : Medium Sonde Error Correction  
 SPSHIFT : S.P. Baseline Offset  
 SRFTEMP : Surface Temperature  
 SZCOR : CN Size Cor. ?  
 TDEPTH : Total Depth



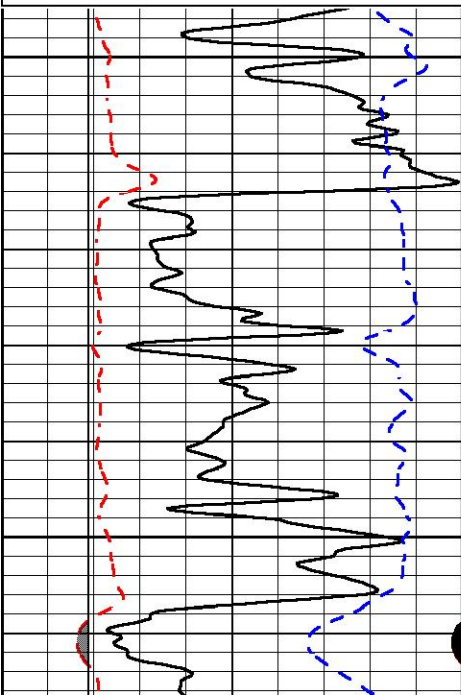
## DETAIL SECTION

### MAIN PASS

Database File citadel\_ramsey 2-30.db  
 Dataset Pathname stkml/pass3.1  
 Presentation Format \_micro  
 Dataset Creation Tue Feb 01 22:28:46 2022  
 Charted by Depth in Feet scaled 1:240

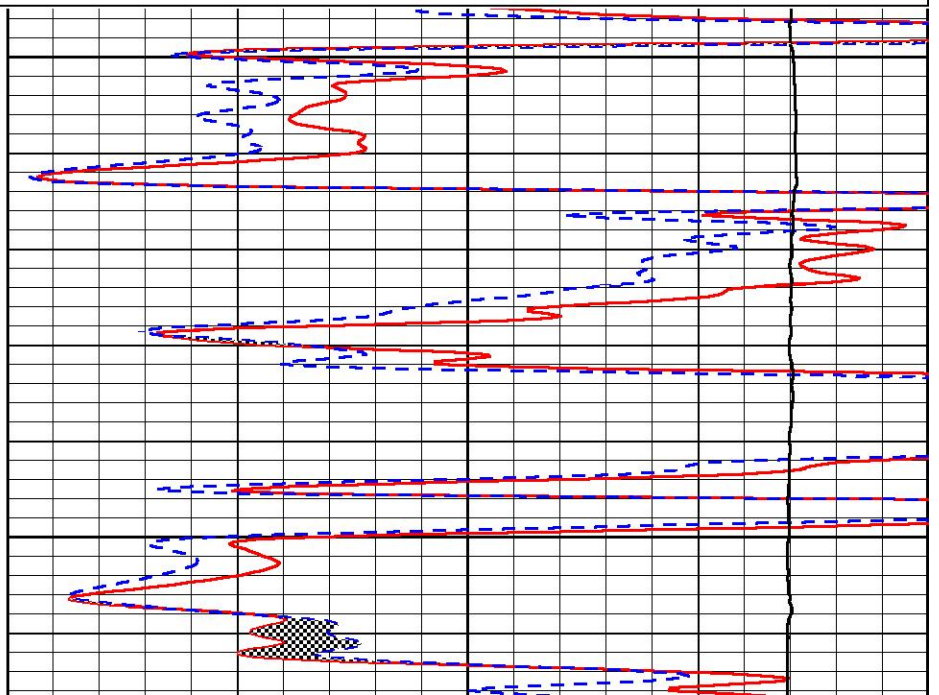
0	Gamma Ray (GAPI)	150
6	Caliper (in)	16
-2.875	mcal (in)	7.875
-200	SP (mV)	0

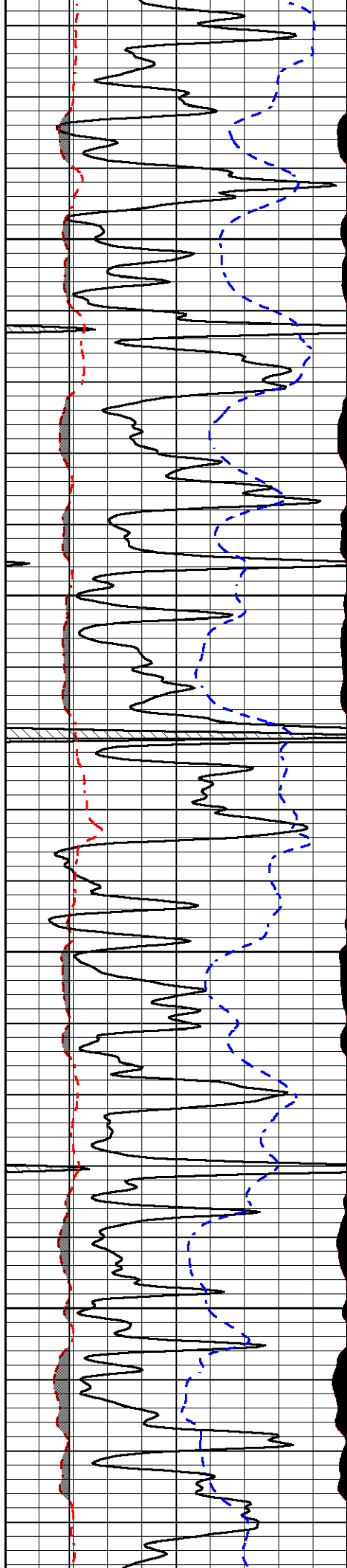
0	Micro Inverse 1 X 1 (Ohm-m)	40
0	Micro Normal 2" (Ohm-m)	40
10000	Line Weight (lb)	0



3600

3650



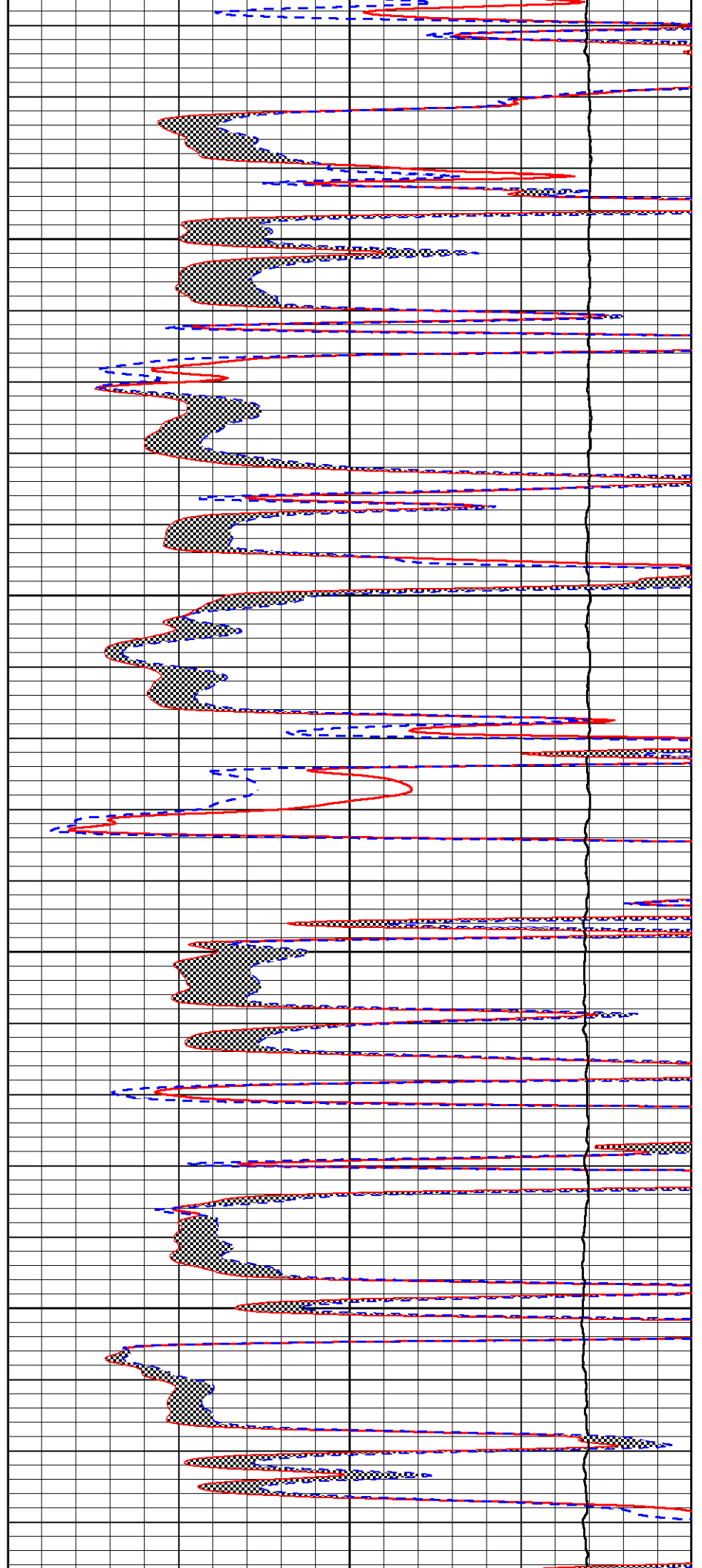


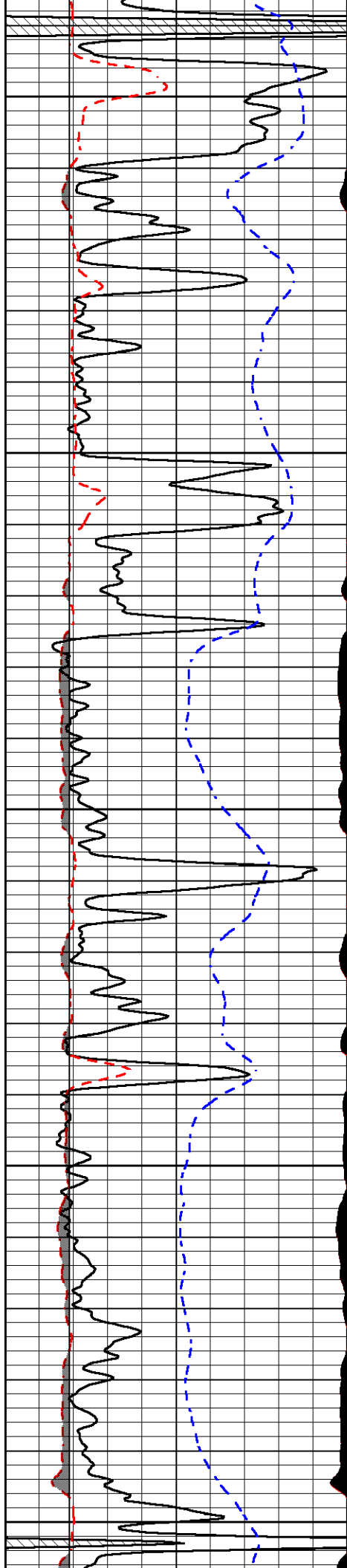
3700

3750

3800

3850





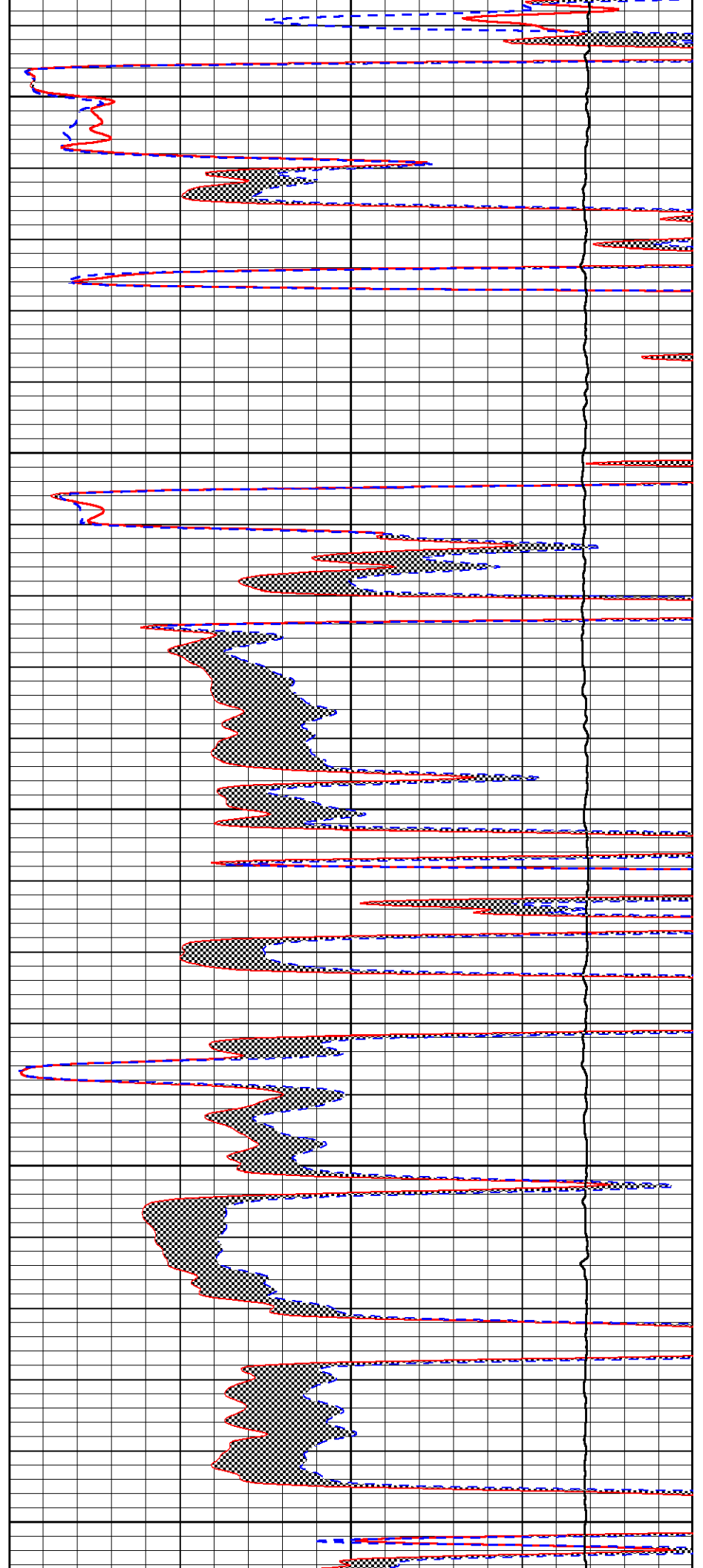
3900

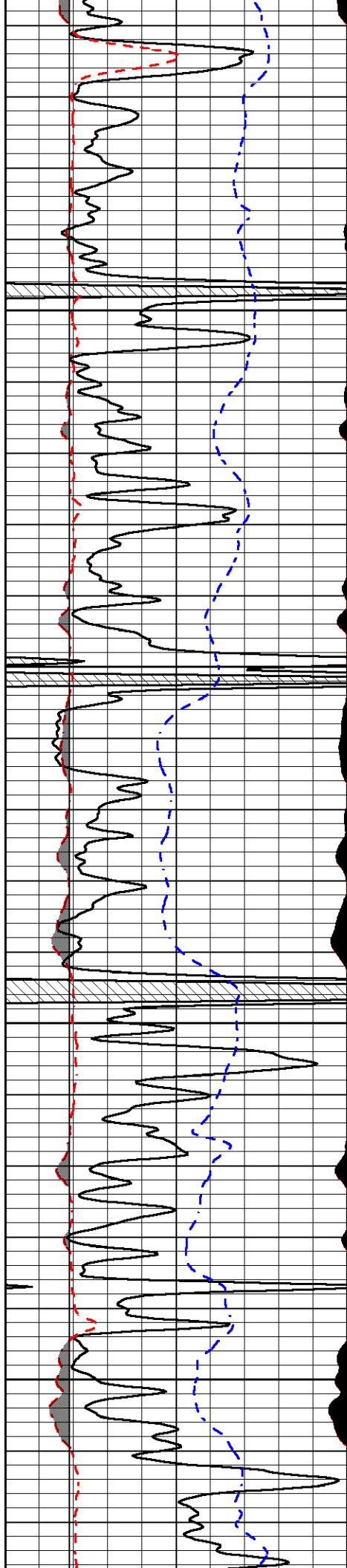
3950

4000

4050

4100



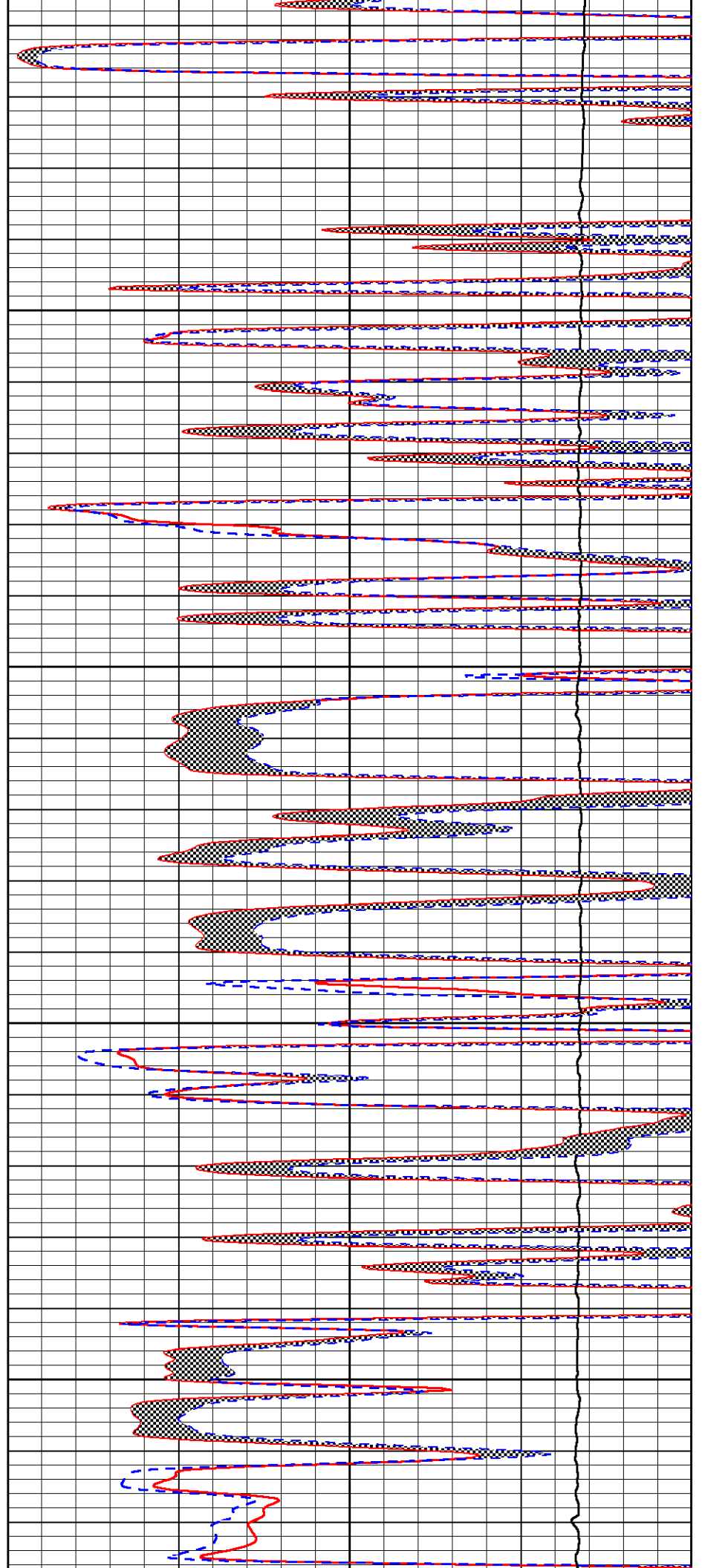


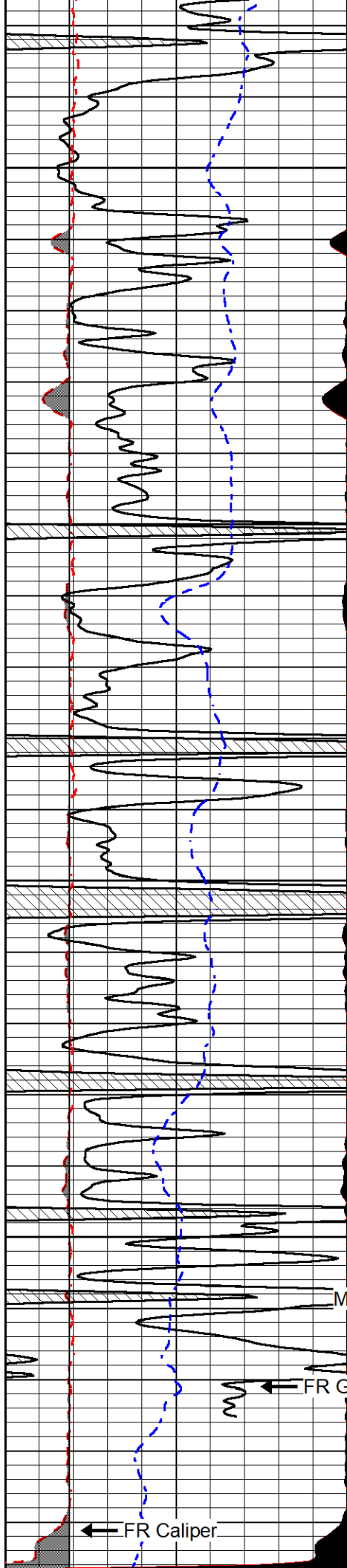
4150

4200

4250

4300





4350

4400

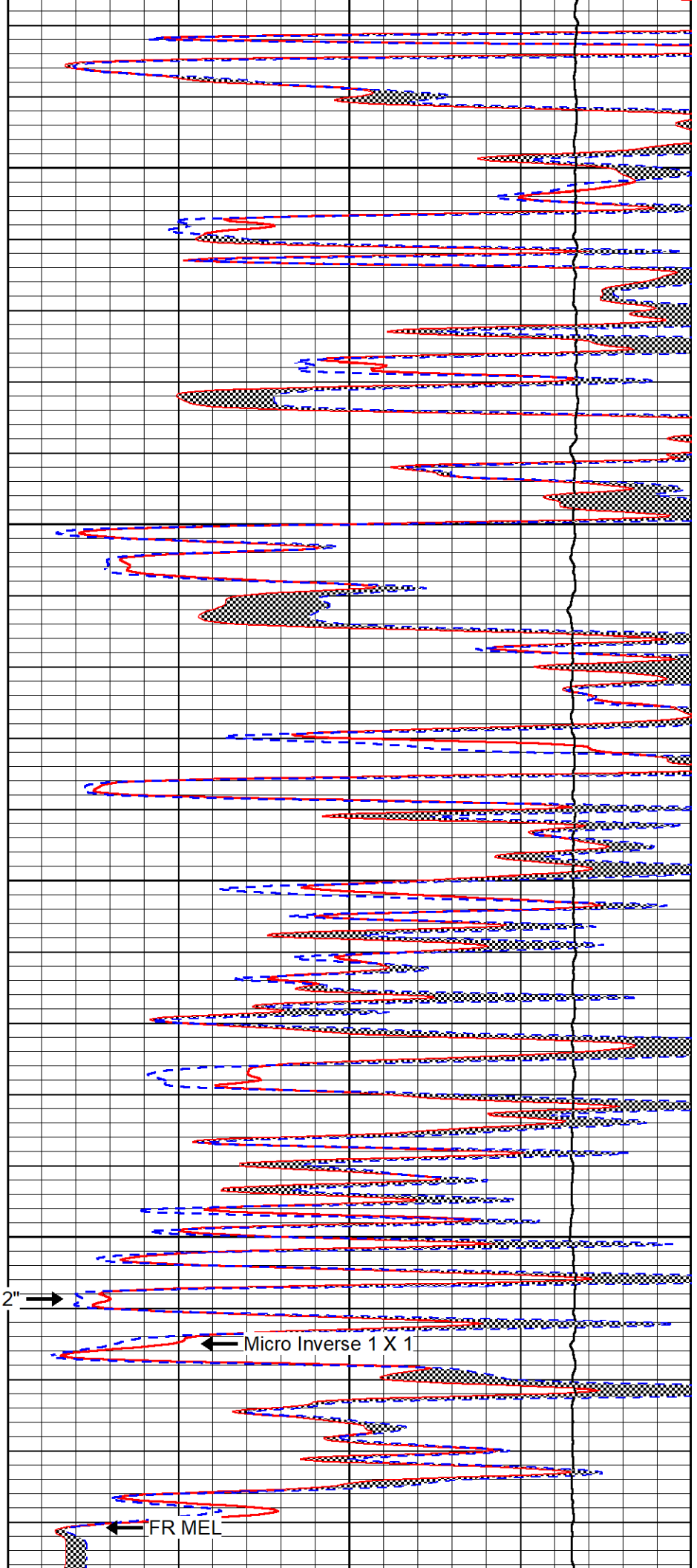
4450

4500

Micro Normal 2" →

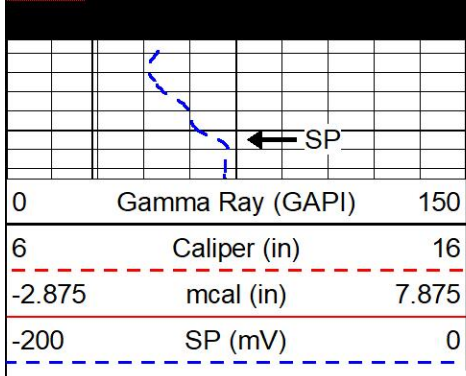
← FR Gamma Ray

← FR Caliper

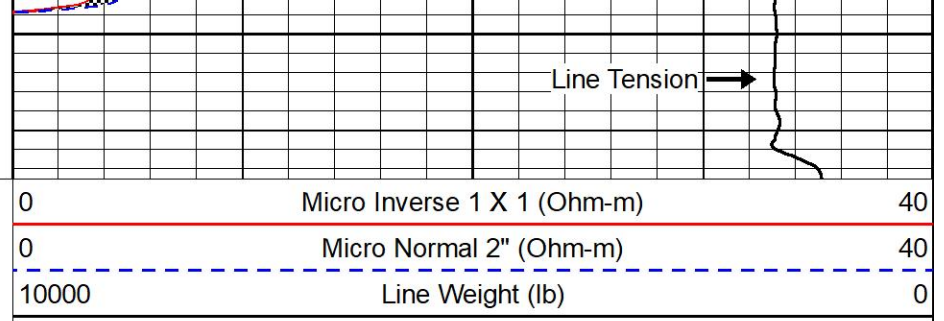


← Micro Inverse 1 X 1

← FR MEL



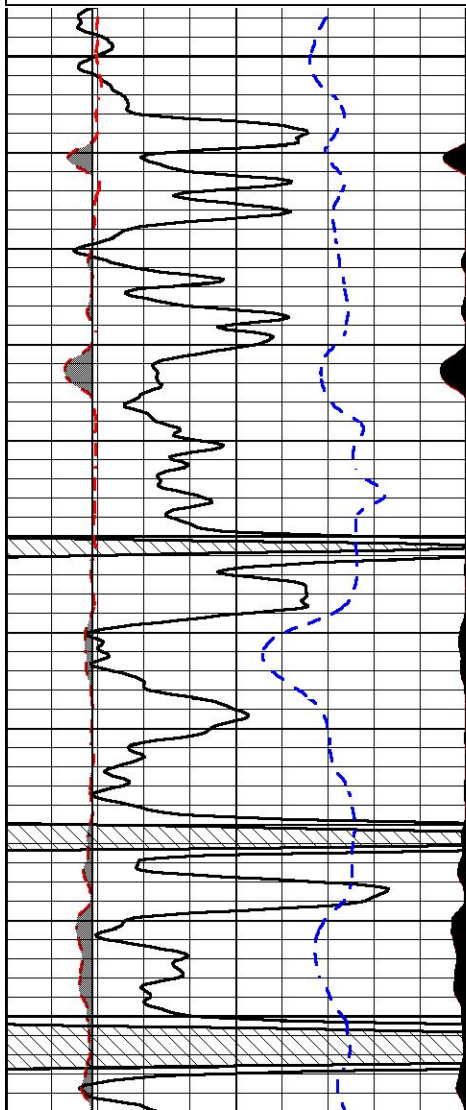
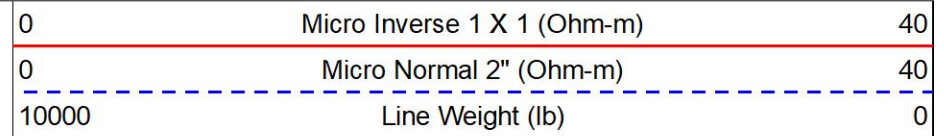
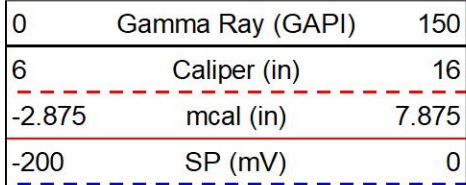
4550



# REPEAT SECTION

## REPEAT PASS

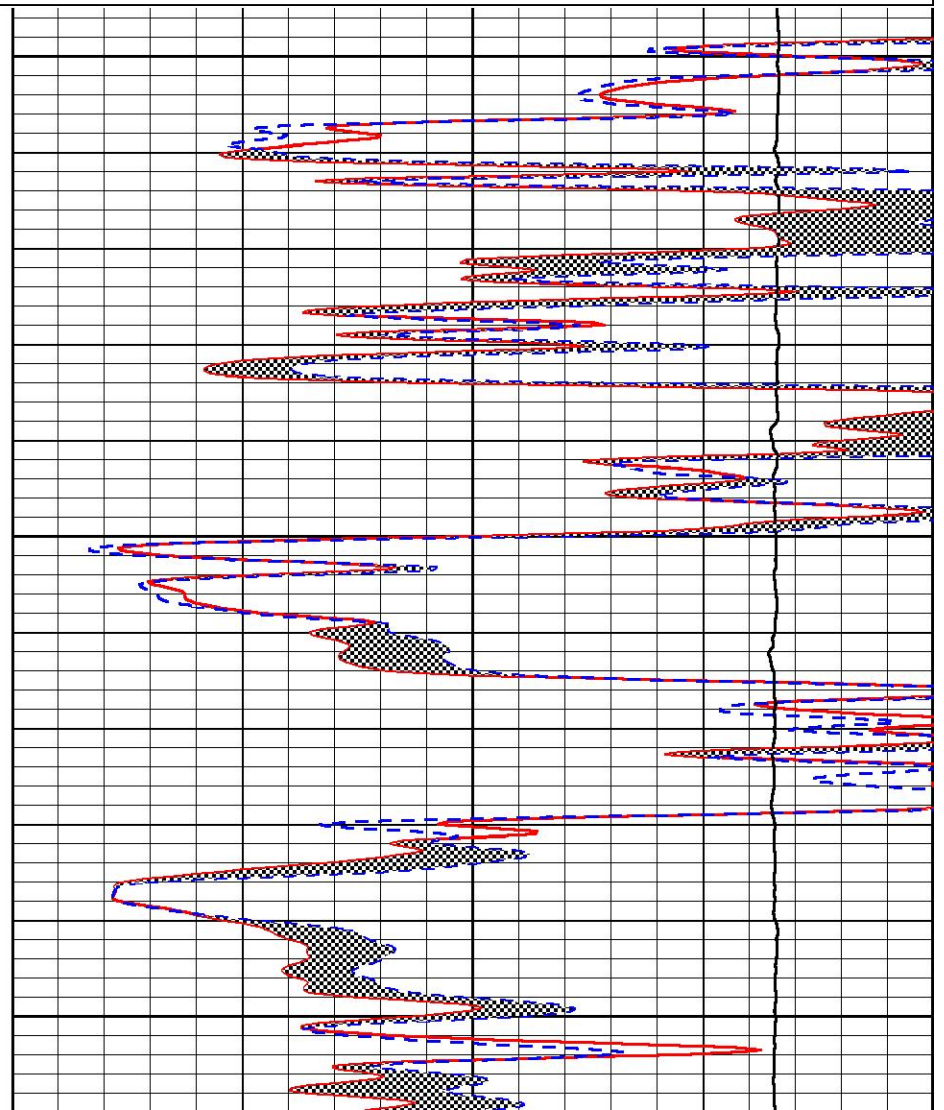
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 Dataset Pathname    stkml/pass2.1  
 Presentation Format    \_micro  
 Dataset Creation      Tue Feb 01 21:52:13 2022  
 Charted by            Depth in Feet scaled 1:240

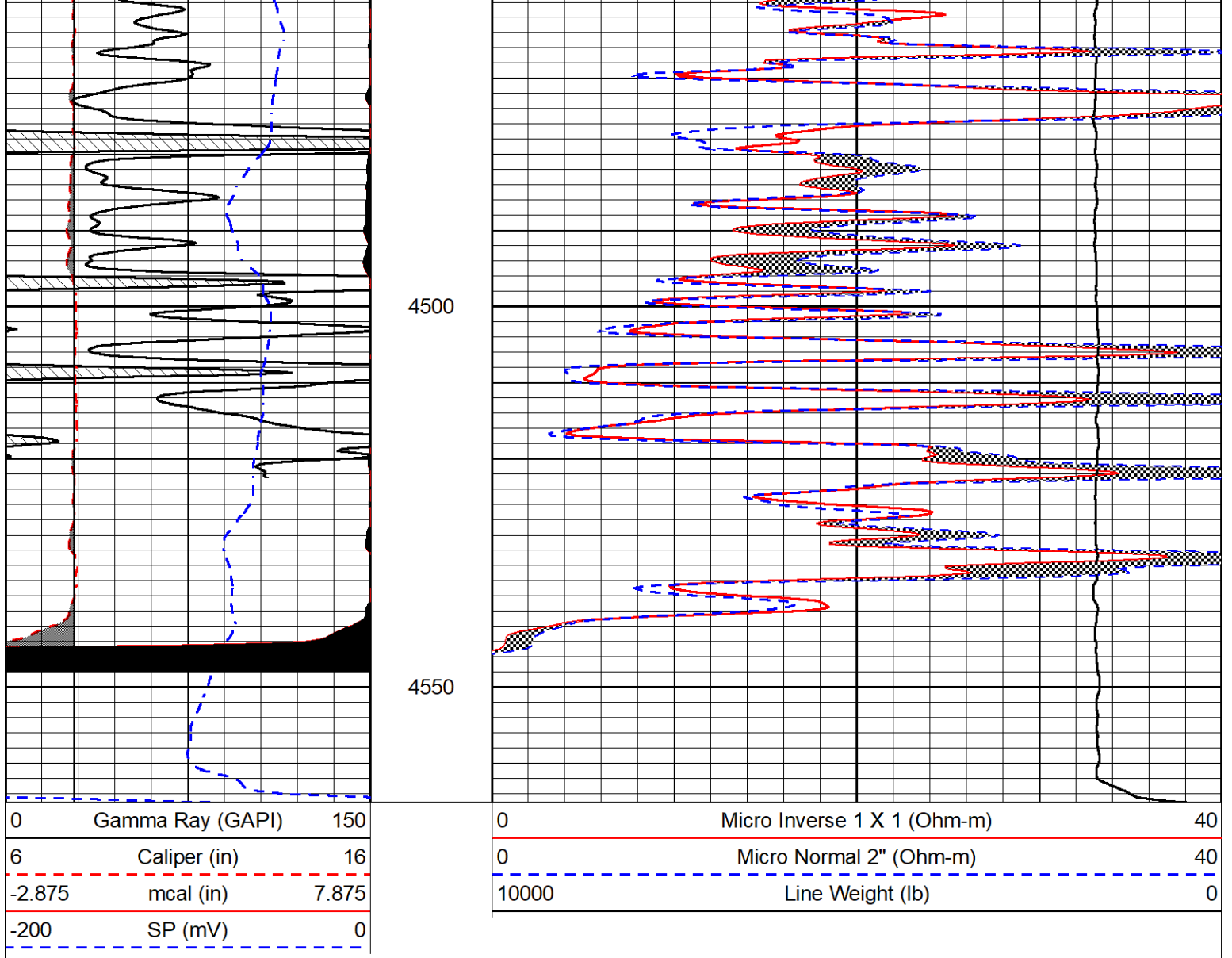


4350

4400

4450





### Calibration Report

Database File citadel\_ramsey 2-30.db  
 Dataset Pathname stklm/pass3.14  
 Dataset Creation Tue Feb 01 21:54:18 2022

### Dual Induction Calibration Report

Serial-Model: 501 HT-M&W  
 Surface Cal Performed: Mon Jan 24 19:13:55 2022

Loop:	Readings		References		Results		
	Air	Loop	Air	Loop	m	b	
Deep	83.639	487.104	0.000	183.000	mmho/m	0.420	-34.500
Medium	113.335	1585.690	0.000	442.000	mmho/m	0.300	-33.000

### Microlog Calibration Report

Serial-Model: 402-PSIML  
 Performed: Mon Jan 24 20:31:16 2022

	Readings		References		Results	
	Zero	Cal	Zero	Cal	m	b

Normal	0.0000	1.0000	0.0000	1.0000	Ohm-m	38000.0000	-2.5000
Inverse	0.0000	1.0000	0.0000	1.0000	Ohm-m	40000.0000	-2.0000
Caliper	1.0052	1.0858	5.0000	16.5000	in	125.0000	-123.8000

**Compensated Density Calibration Report**

Serial-Model: 305-05-M&W  
 Source #: 20762B  
 Master Calibration Performed: Mon Jan 24 19:14:33 2022

**Master Calibration**

	Density		Far Detector	Near Detector	
Magnesium	1.755	g/cc	8758.11	9709.36	cps
Aluminum	2.630	g/cc	1513.14	5652.54	cps
Spine Angle = 72.88			Density/Spine Ratio = 0.476		
	Size		Reading		
Small Ring	4.00	in	1.75		
Large Ring	14.00	in	1.38		

**Compensated Neutron Calibration Report**

Serial-Model: 207-MW-M&W  
 Source #: 100046B  
 Master Calibration Performed: Mon Nov 29 15:06:24 2021

**Master Calibration**

Detector	Readings	Target	Normalization
Short Space	6240.00 cps	1000.00 cps	1.6025
Long Space	460.00 cps	1000.00 cps	1.9500

**Gamma Ray Calibration Report**

Serial Number: 101  
 Tool Model: M&W  
 Performed: Mon Jan 24 19:14:46 2022

Calibrator Value: 500.0 GAPI

Background Reading: 24.0 cps  
 Calibrator Reading: 637.0 cps

Sensitivity: 0.5500 GAPI/cps



**Company** Citadel Oil, LLC  
**Well** Ramsey #2-30  
**Field** Danny Northeast  
**County** Lane  
**State** Kansas





# RADIAL BOND LOG WITH GAMMA RAY

MIDWEST WIRELINE

Comp. Citadel Oil, LLC  
 Well Ramsey #2-30  
 Field Danny Northeast  
 Co. Lane  
 State Kansas

Company <b>Citadel Oil, LLC</b>	Other Services
Well <b>Ramsey #2-30</b>	
Field <b>Danny Northeast</b>	
County <b>Lane</b>	State <b>Kansas</b>
Location: API #: 15-101-22666-00-00	
808 FNL & 2685 FEL	
SEC 30 TWP 17S RGE 30W	
Perforate	
Permanent Datum Log Measured From Drilling Measured From	Ground Level Elevation Above Perm. Datum Elevation
Kelly Bushing	K.B. 2904 D.F. G.L. 2894

Date of Service	2/9/2022		
Run Number	One		
Depth Driller or PBTD	4560		
Depth Logger	4493		
Bottom Log Interval	4491		
Top Log Interval	3300		
Open Hole Size	7.875		
Type Fluid	Water		
Fluid Level	280		
Fluid Density			
Max. Recorded Temperature	122 Deg. F.		
Max. Wellhead Pressure	00 PSI		
Wellhead Connection	Open		
Estimated Cement Top	3395		
Unit Number	T-106		
Wireline Size	.288		
Location	Hays KS		
Recorded By	M. Hiss		
Witnessed By	Kyle Carter		
	Size	WFt	Bottom
Tubing Record			
Surface Casing	8.625	23	00 268
Production Casing	4.5	11.6	00 TD
Liner Record			

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All interpretations are opinions based on inferences from electrical or other measurements and Midwest Wireline LLC cannot and does not guarantee the accuracy or correctness of any interpretation, and Midwest Wireline LLC will not be liable or responsible for any loss, costs, damages, or expenses incurred or sustained by anyone resulting from any interpretation made by any of our officers, agents or employees.

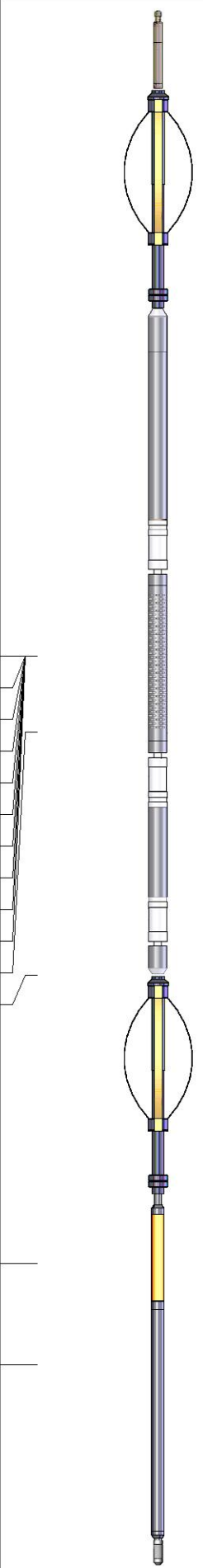
Comments

N/A DENOTES NOT AVAILABLE OR NON-APPLICABLE.  
 Healy KS,  
 West to Bison Rd, South to 200 Rd, 1 1/2 West,  
 South Into.

THANK YOU FOR USING MIDWEST WIRELINE LLC!

Your Midwest Wireline Crew	Tool Data - Services	Serial Number
Engineer: M. Hiss Operator: J. Rome Operator: Operator:		

Quantity	Offset (ft)	Schematic	Description	Length (ft)	O.D. (in)	Weight (lb)
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Sensor	Offset (ft)	Schematic	Description	Length (ft)	O.D. (in)	Weight (lb)
			Cable Head-Titan_144 1 7/16" Titan Cable Head	1.03	1.44	2.00
			Centralizer-275 Probe 2 3/4" Probe Adjustable Spring Centralizer	2.88	2.75	15.00
			PROBE-RBT-DIGITAL-RBL-D (PR-012) Probe 2 3/4" Radii Bond-Digital	8.75	2.75	100.00
WVFS8	11.94					
WVFS7	11.94					
WVFS6	11.94					
WVFS5	11.94					
WVFS4	11.94					
WVFS3	11.94					
WVFS2	11.94					
WVFS1	11.94					
WVFCAL	11.94					
WVF3FT	11.94					
WVF5FT	10.94					
HEADVOLT	7.75					
			Centralizer-275 Probe 2 3/4" Probe Adjustable Spring Centralizer	2.88	2.75	15.00
CCL	3.96					
GR	2.63		GR_CCL-2 3/4" Probe (060802)	4.54	2.75	50.00
			Bullnose-PROBE Probe Go Pin Pressure Cap	0.33	1.38	1.00

Dataset: citadel\_ramsey\_#2\_30\_cbl.db: field/well/run1/pass6  
 Total length: 20.41 ft  
 Total weight: 183.00 lb  
 O.D.: 2.75 in

# Log Variables

DatabaseC:\ProgramData\Warrior\Data\citadel\_ramsey\_#2\_30\_cbl.db  
 Dataset field/well/run1/pass6/\_vars\_

## Top - Bottom

BOREID in 7.875	BOTTEMP degF 100	CASEOD in 4.5	CASETHCK in 0.25	CASEWGHT lb/ft 11.5	MAXAMPL mV 0	MINAMPL mV 1	MINATTN db/ft 0.08
PERFS 0	PPT usec 0	SRFTEMP degF 50	TDEPTH ft 4493				

## Variable Description

BOREID : Borehole I.D.  
 BOTTEMP : Bottom Hole Temperature  
 CASEOD : Casing O.D.  
 CASETHCK : Casing Thickness

CASEWGHT : Casing Weight  
 MAXAMPL : Maximum Amplitude  
 MINAMPL : Minimum Amplitude  
 MINATTN : Minimum Attenuation

PERFS : Perforation Flag  
 PPT : Predicted Pipe Time  
 SRFTEMP : Surface Temperature  
 TDEPTH : Total Depth



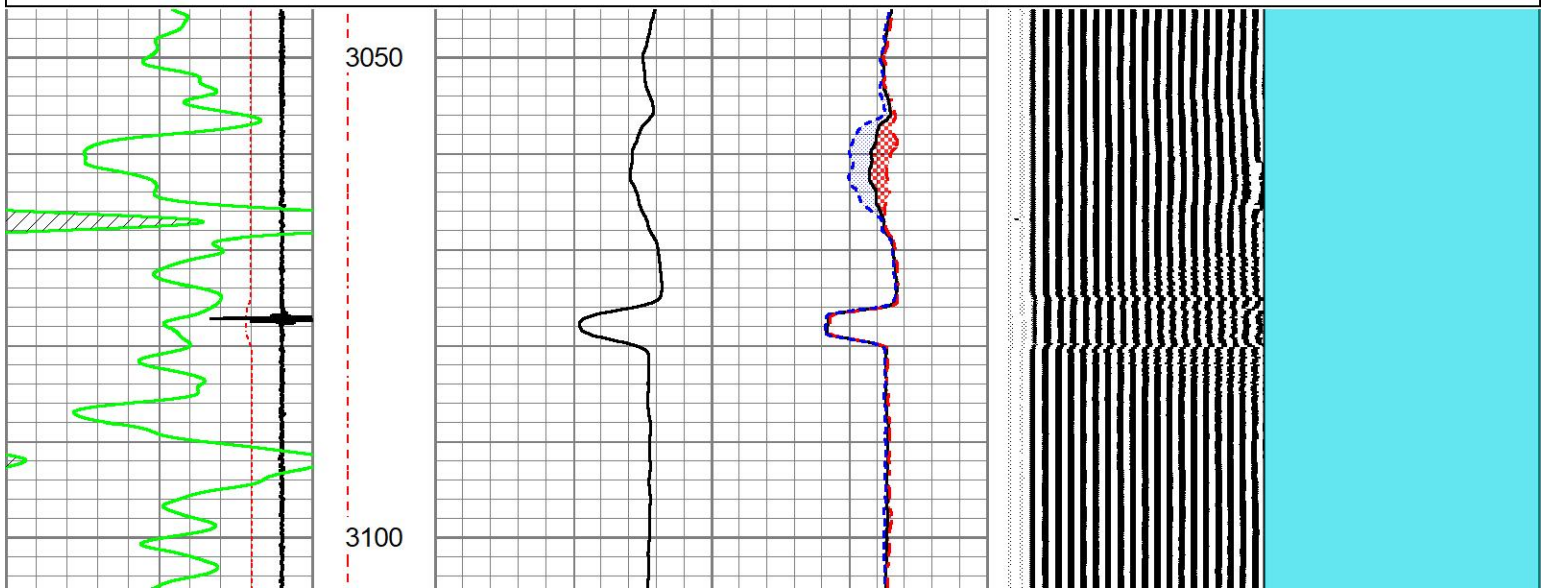
MIDWEST WIRELINE

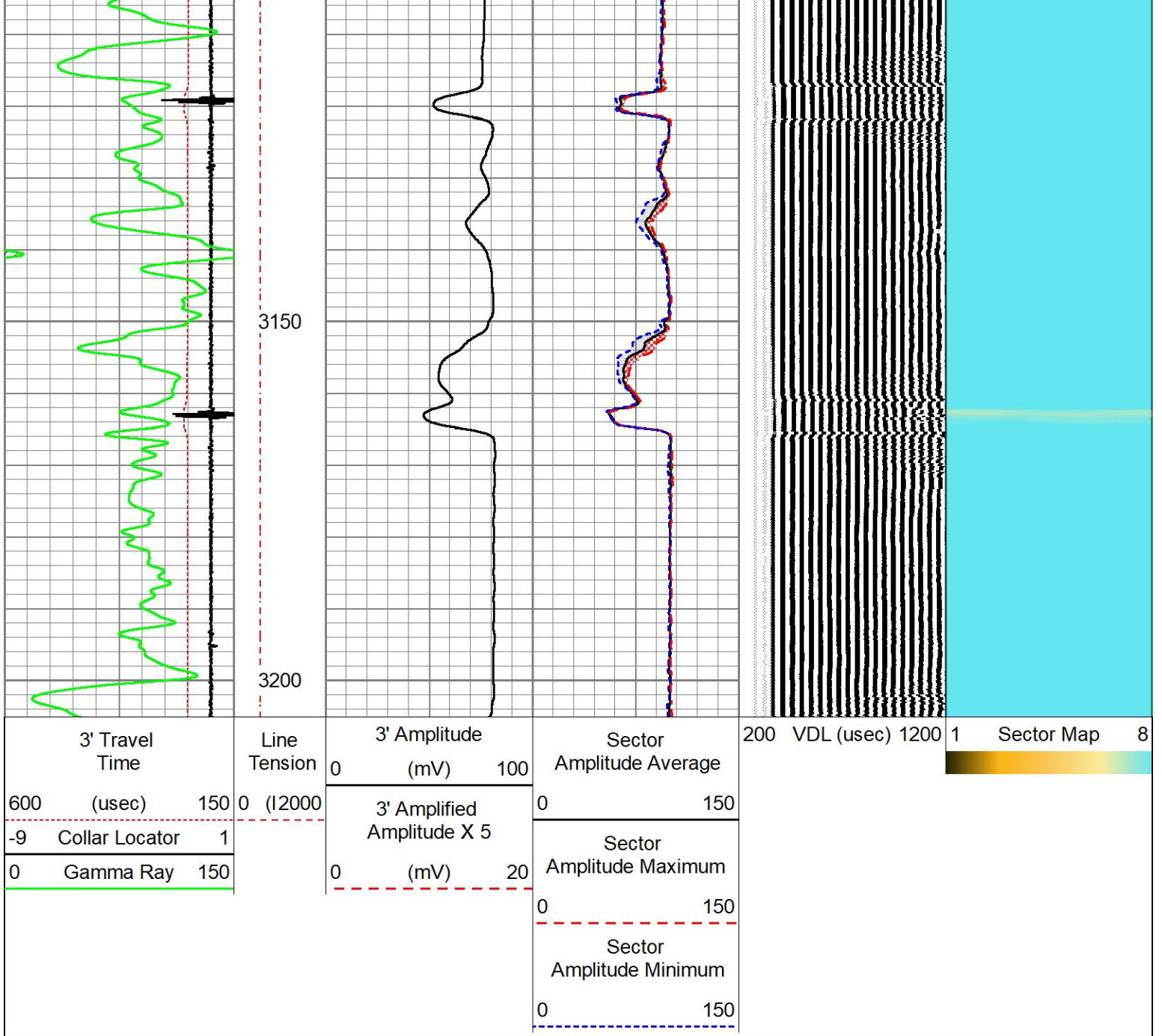
## FREE PIPE SECTION

ZERO PSI APPLIED AT SURFACE

Database File citadel\_ramsey\_#2\_30\_cbl.db  
 Dataset Pathname pass2  
 Presentation Format pinr\_scbl  
 Dataset Creation Wed Feb 09 10:20:42 2022  
 Charted by Depth in Feet scaled 1:240

3' Travel Time	Line Tension	3' Amplitude (mV)	Sector Amplitude Average	200 VDL (usec) 1200	1	Sector Map	8
600 (usec) 150	0 (12000)	0 100	0 150				
-9 Collar Locator 1		3' Amplified Amplitude X 5	Sector Amplitude Maximum				
0 Gamma Ray 150		0 (mV) 20	0 150				
			Sector Amplitude Minimum				
			0 150				

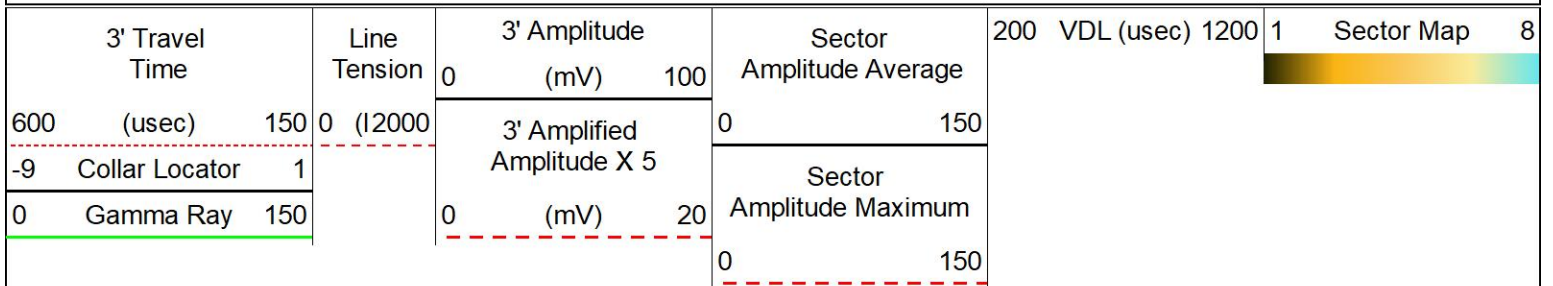




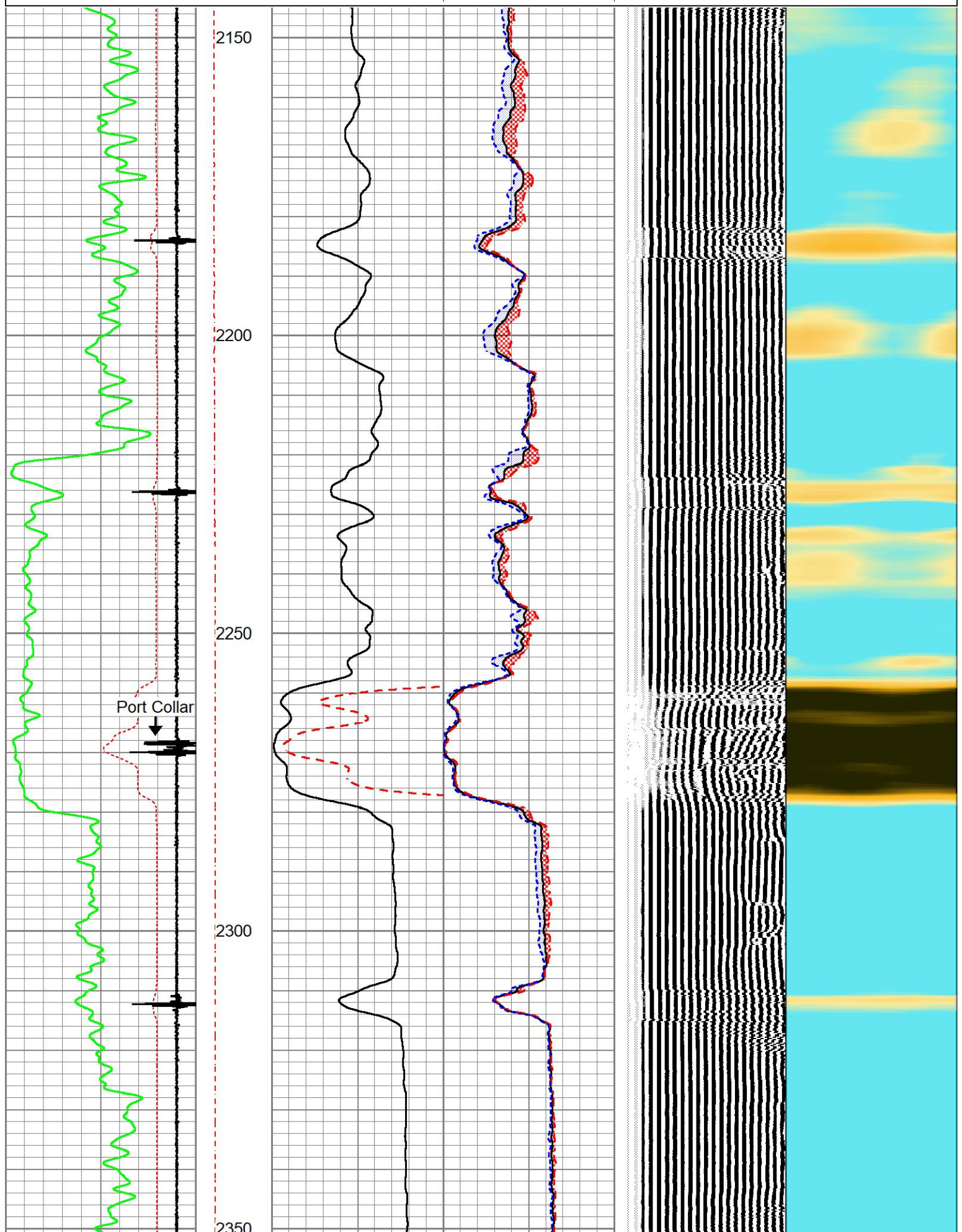
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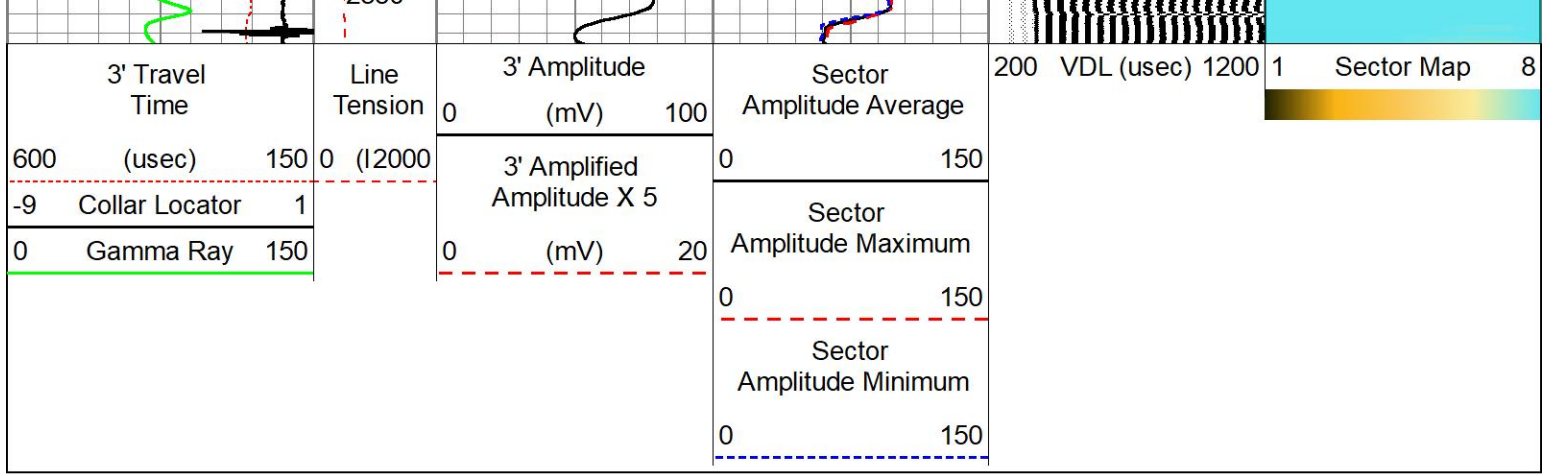
Port Collar @ 2268'

Database File citadel\_ramsey\_#2\_30\_cbl.db  
 Dataset Pathname pass6  
 Presentation Format pinr\_scbl  
 Dataset Creation Wed Feb 09 11:03:17 2022  
 Charted by Depth in Feet scaled 1:240



Sector  
Amplitude Minimum  
0 150

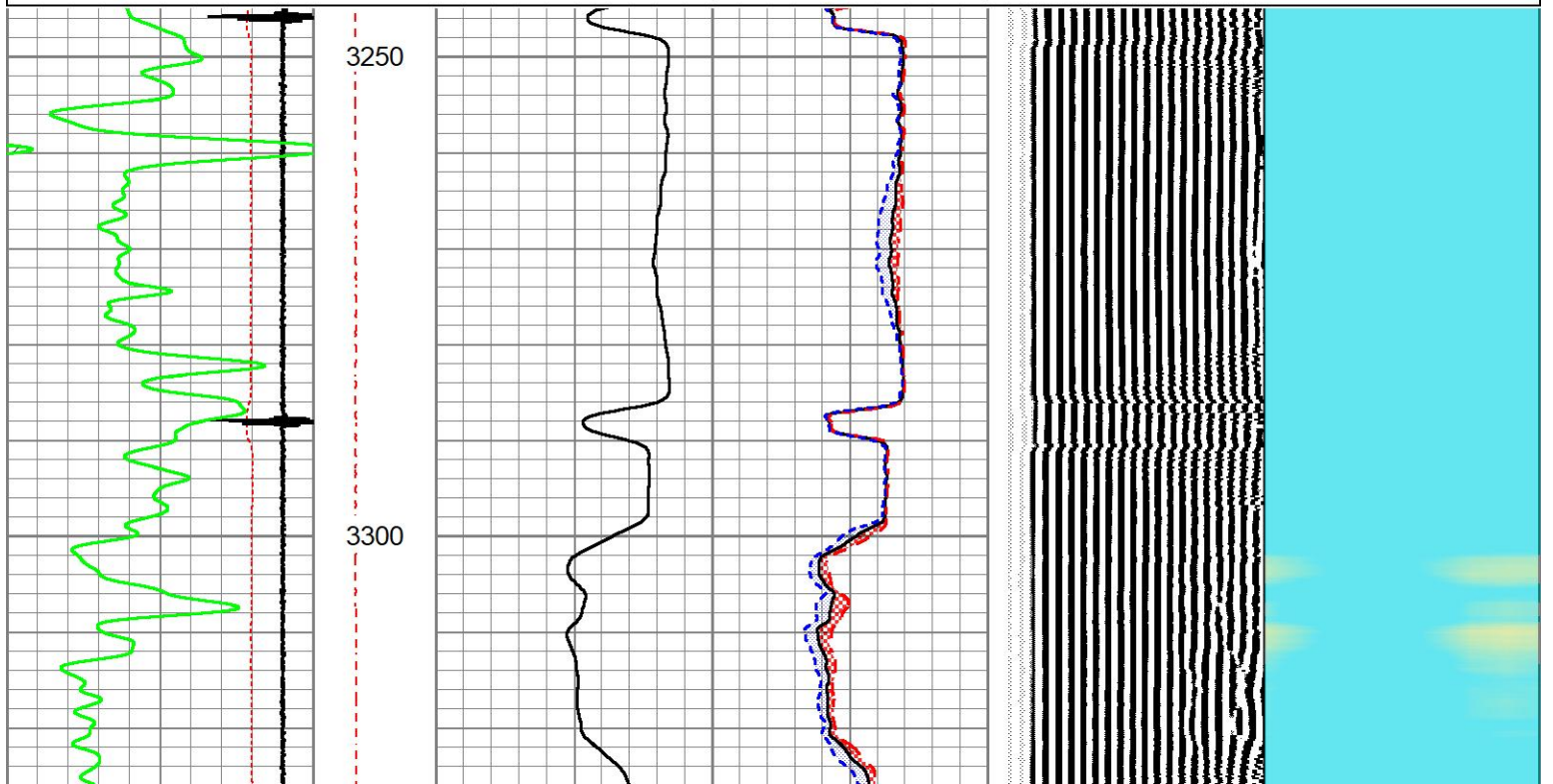
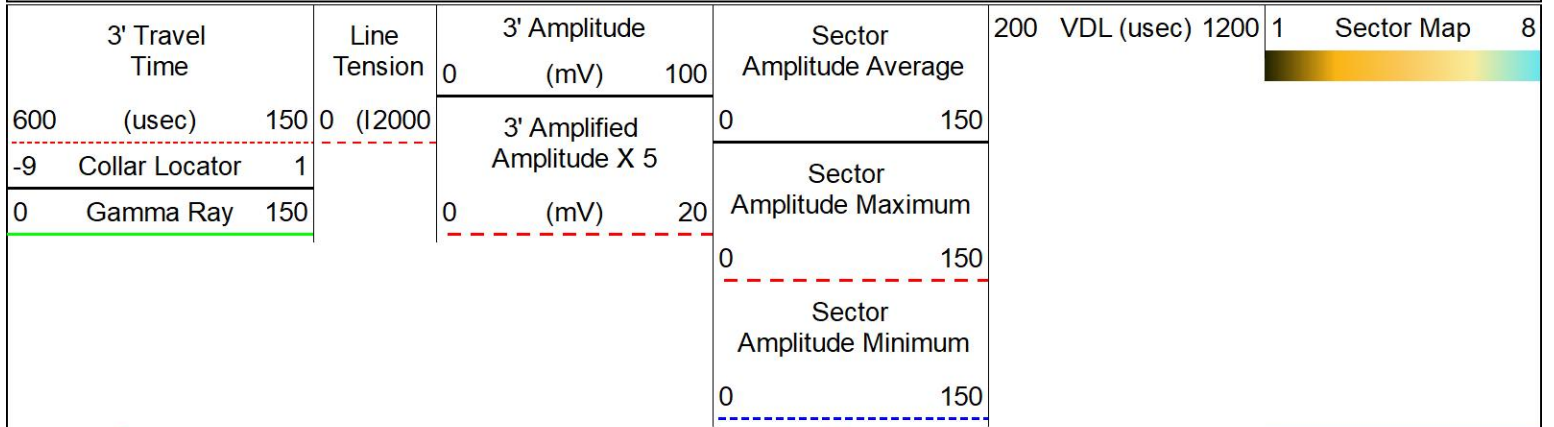


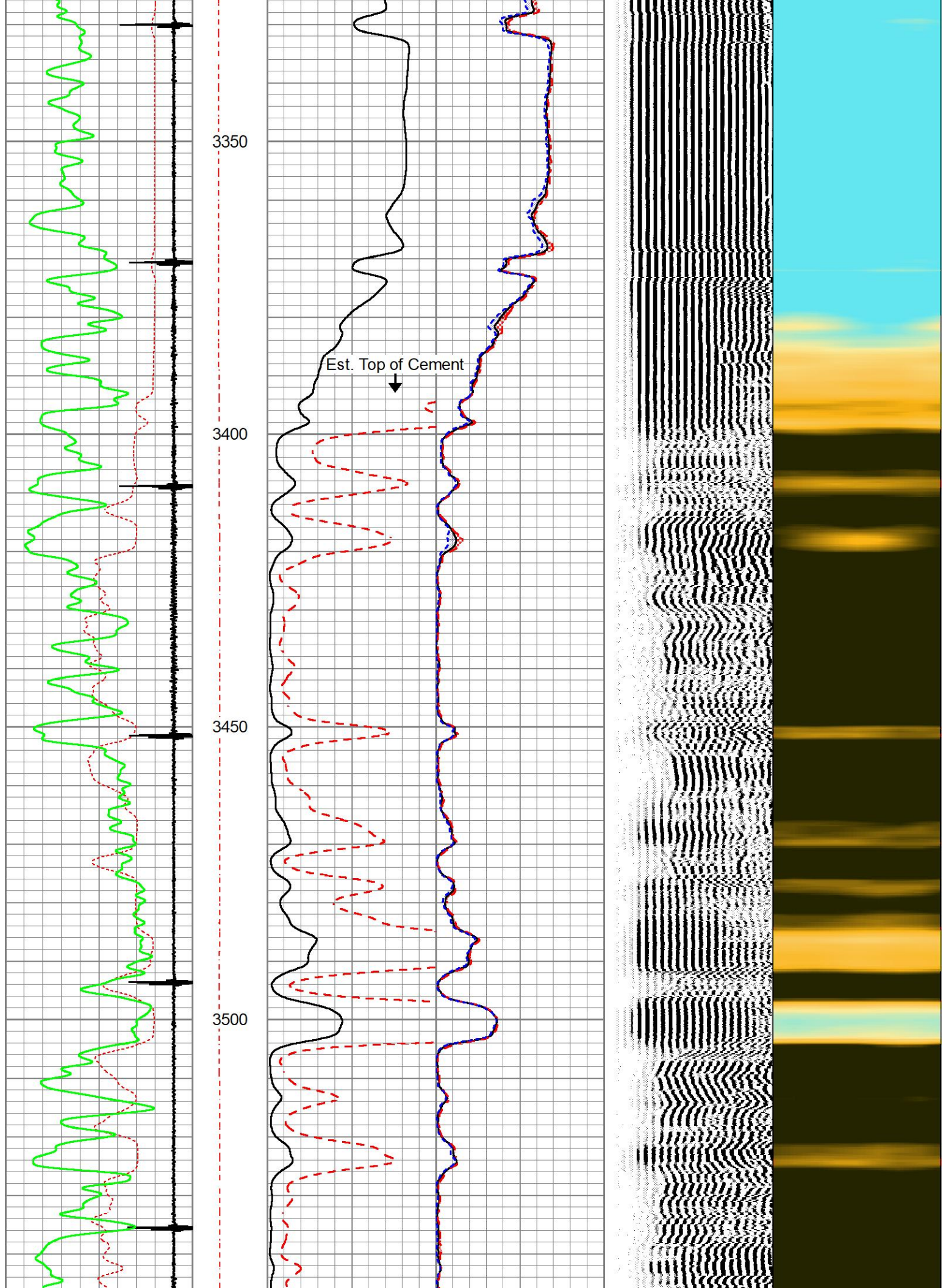


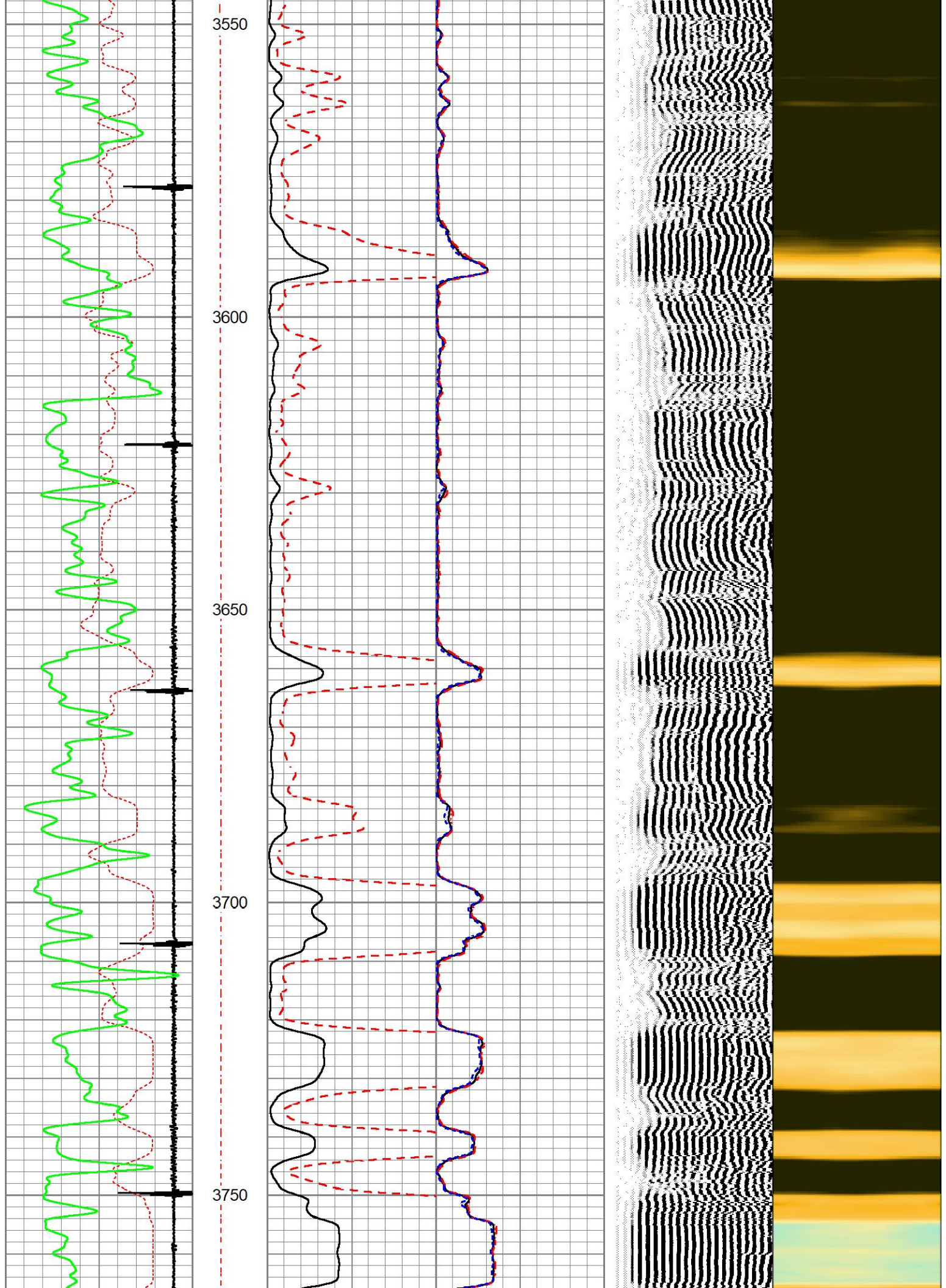
# MAIN LOG

ZERO PSI APPLIED AT SURFACE

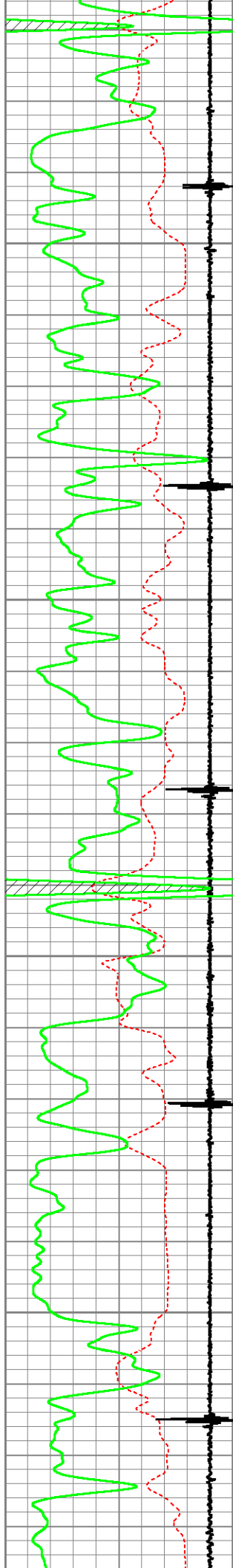
Database File citadel\_ramsey\_#2\_30\_cbl.db  
 Dataset Pathname pass5  
 Presentation Format pinr\_scbl  
 Dataset Creation Wed Feb 09 10:37:52 2022  
 Charted by Depth in Feet scaled 1:240









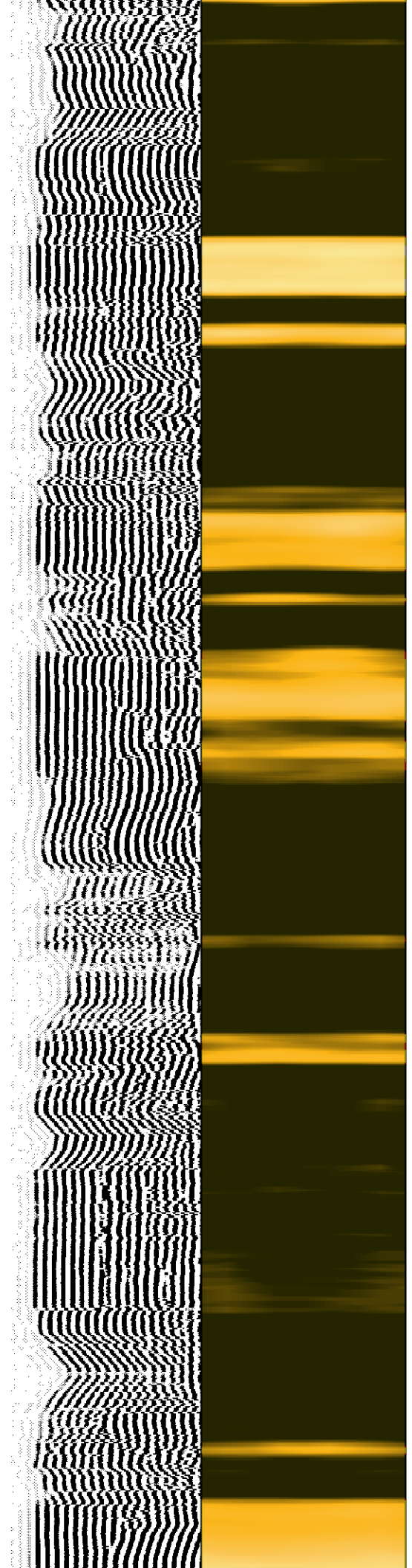
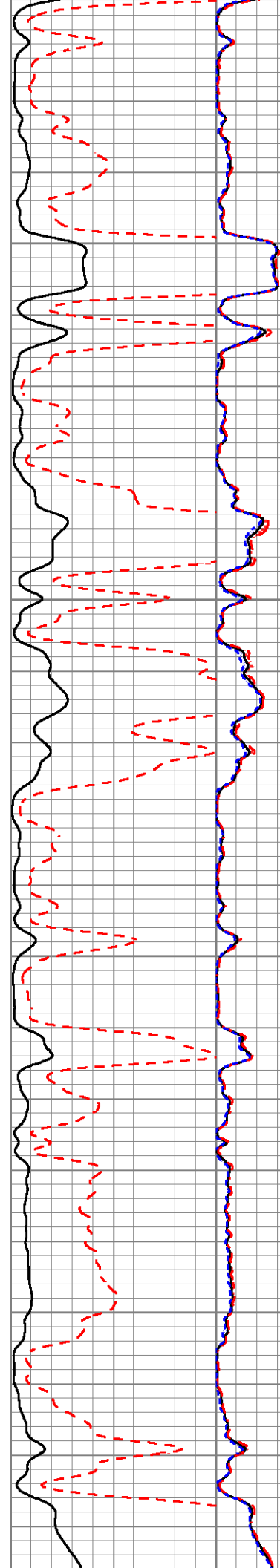


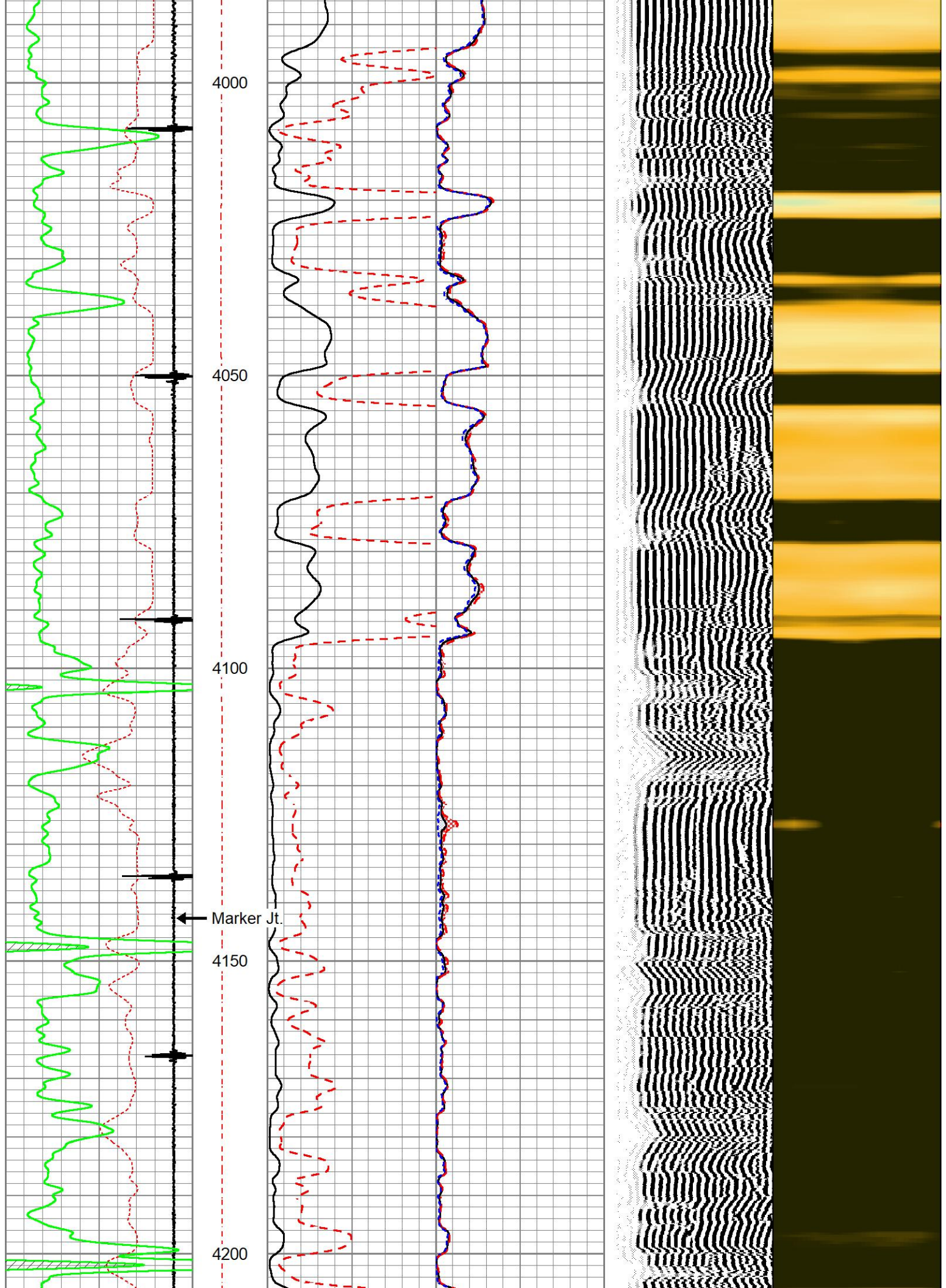
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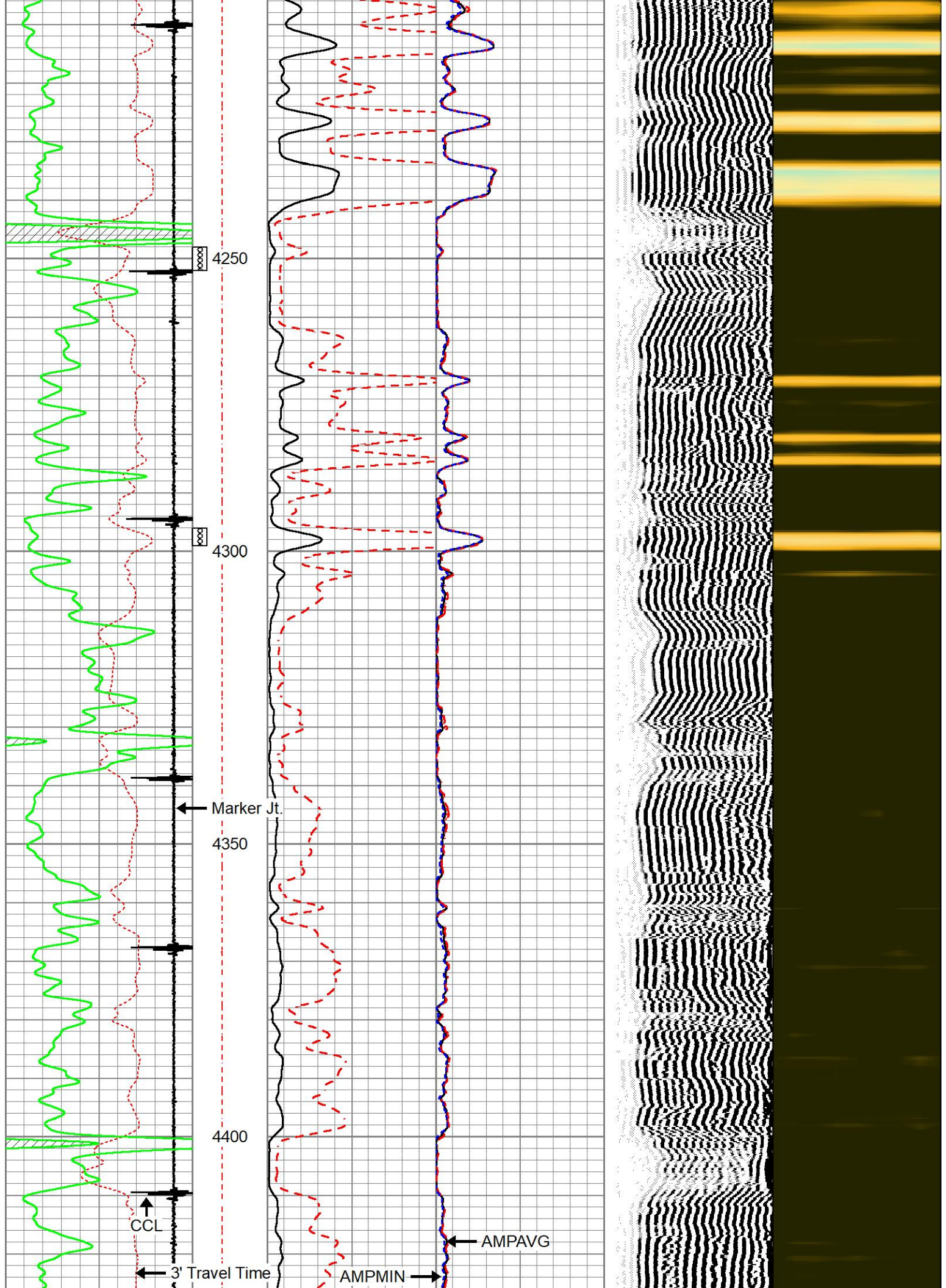
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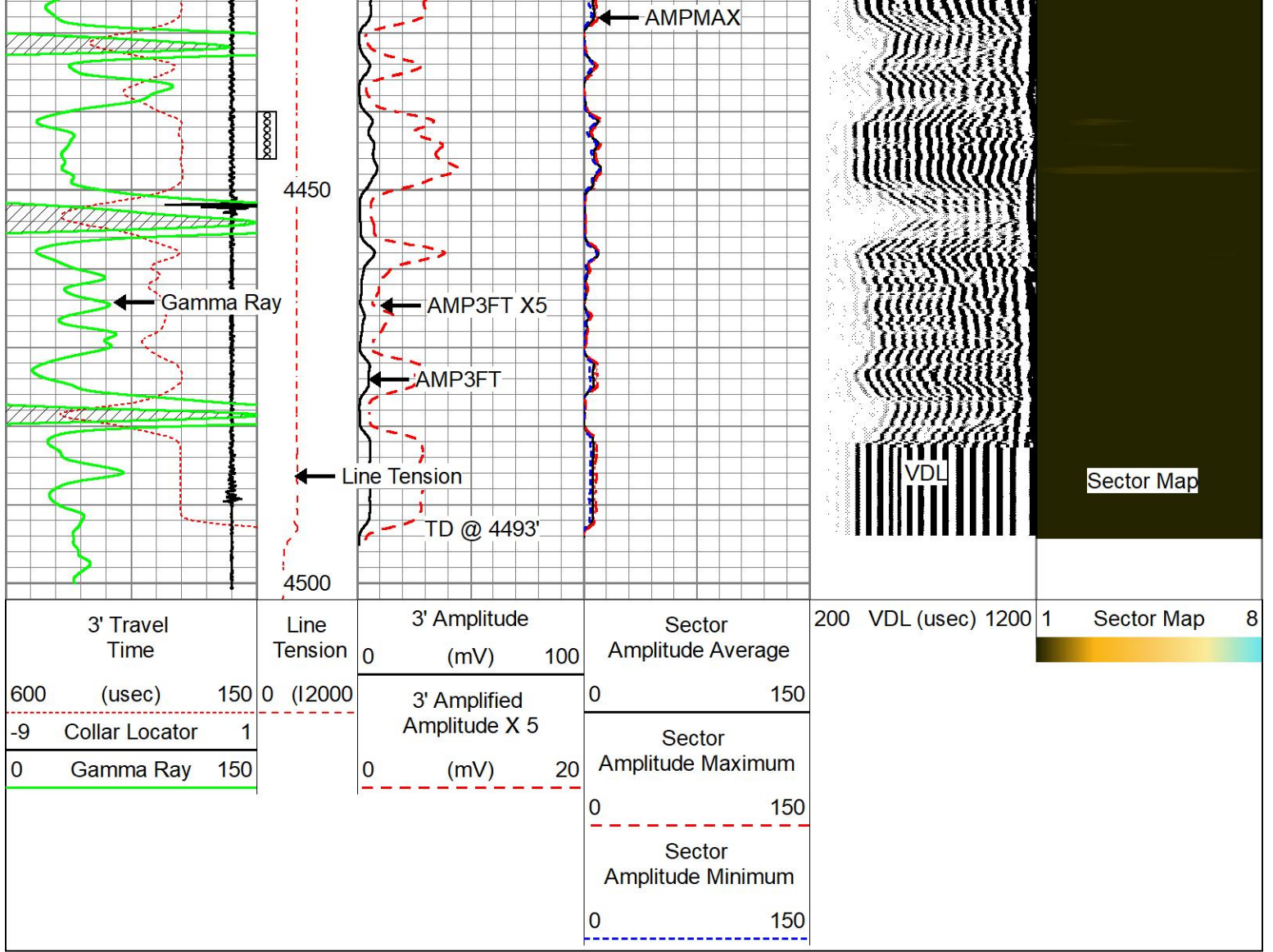
3900

3950





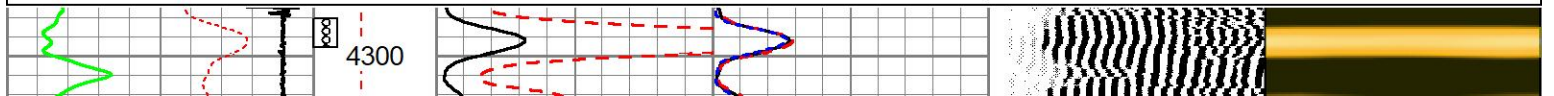
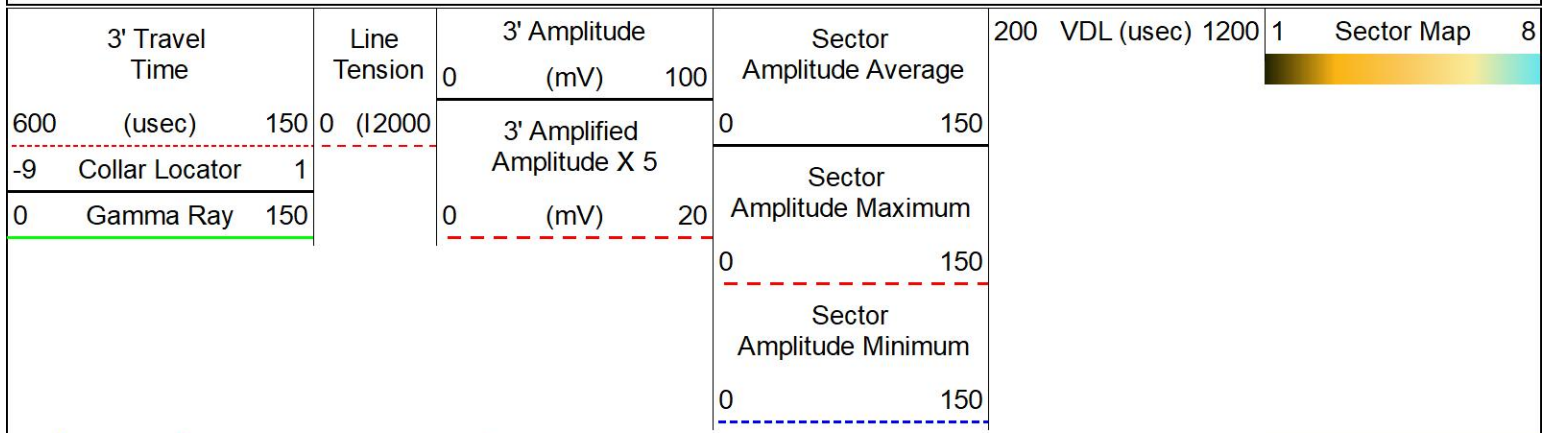


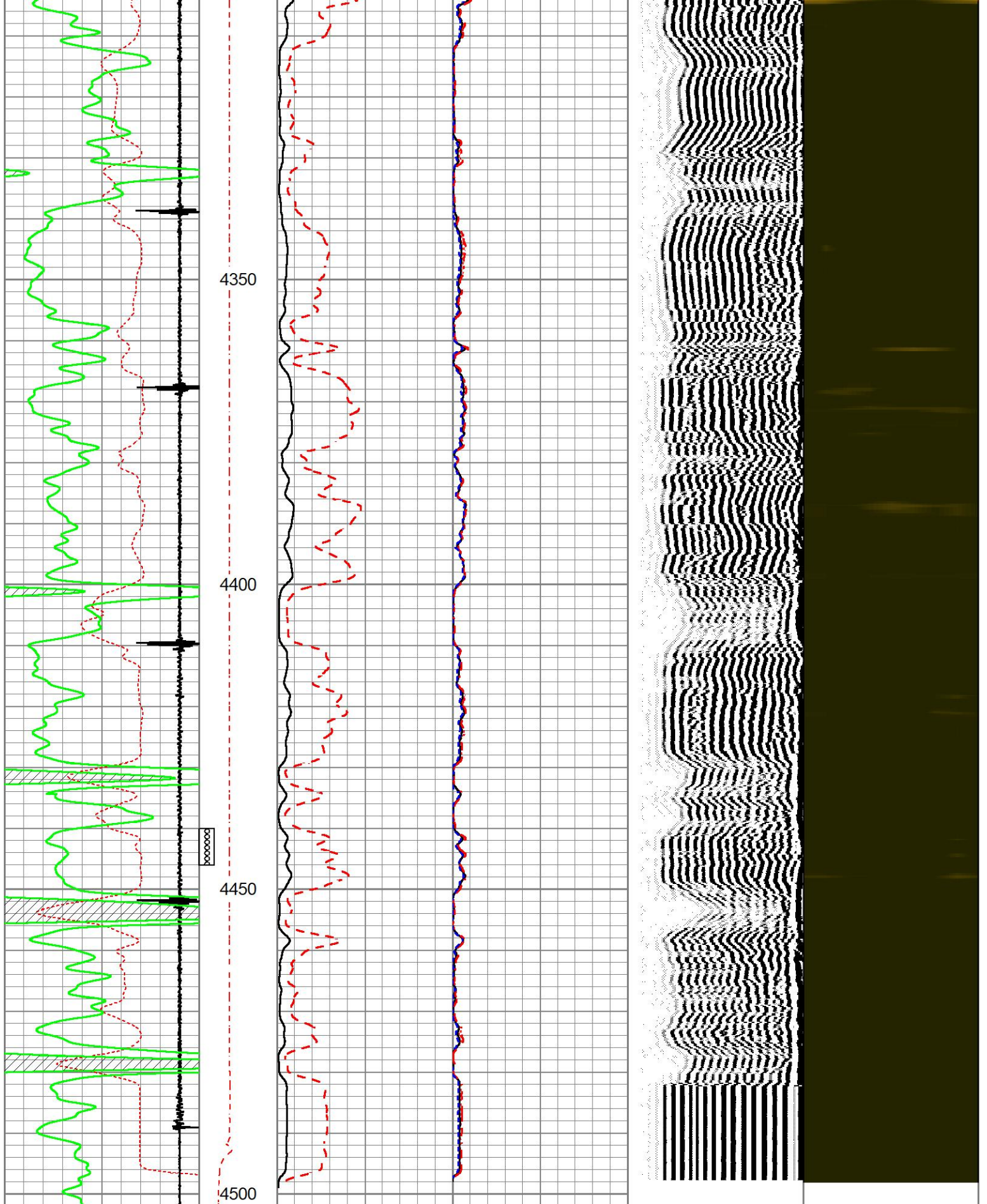


## REPEAT SECTION

ZERO PSI APPLIED AT SURFACE

Database File citadel\_ramsey\_#2\_30\_cbl.db  
 Dataset Pathname pass4  
 Presentation Format pinr\_scbl  
 Dataset Creation Wed Feb 09 10:30:28 2022  
 Charted by Depth in Feet scaled 1:240





3' Travel Time	600 (usec)	150
Collar Locator	-9	1
Gamma Ray	0	150

Line Tension	0 (12000)
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3' Amplitude (mV)	0	100
3' Amplified Amplitude X 5 (mV)	0	20

Sector Amplitude Average	0	150
Sector Amplitude Maximum		

200	VDL (usec)	1200
-----	------------	------

1	Sector Map	8
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Gamma Ray	100	0	(mv)	20	0	150
				Sector Amplitude Minimum		
				0	150	

Calibration Report

Database File      citadel\_ramsey\_#2\_30\_cbl.db  
 Dataset Pathname    pass6  
 Dataset Creation    Wed Feb 09 11:03:17 2022

Gamma Ray Calibration Report

Serial Number:            060802  
 Tool Model:              2 3/4" Probe  
 Performed:                Tue May 11 19:37:17 2021

Calibrator Value:        1.0

Background Reading:     0.0                    cps  
 Calibrator Reading:     1.0                    cps

Sensitivity:                0.8000                /cps

Segmented Cement Bond Log Calibration Report

Serial Number:            PR-012  
 Tool Model:                RBL-D

Calibration Casing Diameter:    4.500                in  
 Calibration Depth:            3199.592            ft

Master Calibration, performed Wed Feb 9 10:20:25 2022:

	Raw (v)		Calibrated (mv)		Results	
	Zero	Cal	Zero	Cal	Gain	Offset
3'	-0.001	1.960	0.700	81.196	41.043	0.736
CAL	-0.004	2.428				
5'	-0.002	1.671	0.700	81.196	48.100	0.805
SUM						
S1	0.021	2.019	0.000	100.000	50.037	-1.040
S2	0.001	2.028	0.000	100.000	49.348	-0.072
S3	0.001	1.983	0.000	100.000	50.459	-0.075
S4	0.001	1.898	0.000	100.000	52.713	-0.050
S5	0.000	1.808	0.000	100.000	55.314	-0.024
S6	0.000	1.800	0.000	100.000	55.550	-0.014
S7	-0.000	1.865	0.000	100.000	53.615	0.026
S8	-0.000	1.983	0.000	100.000	50.429	0.018

Air Zero Calibration, performed Wed Feb 9 09:59:34 2022:

	Raw (v)		Calibrated (v)		Results	
	Zero		Zero		Offset	
3'	0.000		0.000		0.000	
5'	0.000		0.000		0.000	
SUM						
S1	0.000		0.000		0.000	
S2	0.000		0.000		0.000	
S3	0.000		0.000		0.000	
S4	0.000		0.000		0.000	

S4	0.000	0.000	0.000
S5	0.000	0.000	0.000
S6	0.000	0.000	0.000
S7	0.000	0.000	0.000
S8	0.000	0.000	0.000



Company	Citadel Oil, LLC
Well	Ramsey #2-30
Field	Danny Northeast
County	Lane
State	Kansas



CHARGE TO: Citadel

ADDRESS

CITY, STATE, ZIP CODE

TICKET **34044**

PAGE 1 OF 2

1. SERVICE LOCATIONS <u>Ness City, KS</u>	WELL/PROJECT NO. <u>2-30</u>	LEASE <u>Ramsay</u>	COUNTY/PARISH <u>LANE</u>	STATE <u>KS</u>	CITY	DATE <u>2-2-2022</u>	OWNER	
2.	TICKET TYPE <input checked="" type="checkbox"/> SERVICE <input type="checkbox"/> SALES	CONTRACTOR <u>Southwind</u>	RIG NAME/NO.	SHIPPED VIA <u>CT</u>	DELIVERED TO <u>LOCATION</u>	ORDER NO.		
3.	WELL TYPE <u>Oil</u>	WELL CATEGORY <u>Development</u>	JOB PURPOSE <u>Long String 4 1/2"</u>	WELL PERMIT NO.	WELL LOCATION <u>Ang. W to Bison Rd.</u>			
4.	REFERRAL LOCATION	INVOICE INSTRUCTIONS						

PRICE REFERENCE	SECONDARY REFERENCE/ PART NUMBER	ACCOUNTING			DESCRIPTION	QTY.		U/M		UNIT PRICE	AMOUNT
		LOC	ACCT	DF							
<u>575</u>		<u>1</u>			MILEAGE <u>T-R #115</u>			<u>50</u>	<u>MI</u>	<u>6.00</u>	<u>300.00</u>
<u>578</u>		<u>1</u>			<u>Pump Charge - Long String</u>			<u>1</u>	<u>job</u>	<u>1,500.00</u>	<u>1,500.00</u>
<u>404</u>		<u>1</u>			<u>Port Collar</u>	<u>4 1/2</u>	<u>IN</u>	<u>1</u>	<u>EA</u>	<u>2,400.00</u>	<u>2,400.00</u>
<u>403</u>		<u>1</u>			<u>CMT Baskets</u>	<u>4 1/2</u>	<u>IN</u>	<u>1</u>	<u>EA</u>	<u>250.00</u>	<u>250.00</u>
<u>406</u>		<u>1</u>			<u>Latch Down Plug + Baffle</u>	<u>4 1/2</u>	<u>IN</u>	<u>1</u>	<u>EA</u>	<u>225.00</u>	<u>225.00</u>
<u>407</u>		<u>1</u>			<u>INSERT FLOAT Shoe w/ Auto fill</u>	<u>4 1/2</u>	<u>IN</u>	<u>1</u>	<u>EA</u>	<u>300.00</u>	<u>300.00</u>
<u>409</u>		<u>1</u>			<u>Turbolizers</u>	<u>4 1/2</u>	<u>IN</u>	<u>14</u>	<u>EA</u>	<u>75.00</u>	<u>1,050.00</u>
<u>419</u>		<u>1</u>			<u>Rotating Head Rental</u>	<u>4 1/2</u>	<u>IN</u>	<u>1</u>	<u>job</u>	<u>250.00</u>	<u>250.00</u>

**LEGAL TERMS:** Customer hereby acknowledges and agrees to the terms and conditions on the reverse side hereof which include, but are not limited to, **PAYMENT, RELEASE, INDEMNITY, and LIMITED WARRANTY** provisions.

MUST BE SIGNED BY CUSTOMER OR CUSTOMER'S AGENT PRIOR TO START OF WORK OR DELIVERY OF GOODS.

**X**

DATE SIGNED 2/2/2022 TIME SIGNED 6:00  A.M.  P.M.

REMIT PAYMENT TO:

SWIFT SERVICES, INC.  
P.O. BOX 466  
NESS CITY, KS 67560  
785-798-2300

SURVEY	AGREE	UNDECIDED	DISAGREE	PAGE TOTAL	<u>1</u>	<u>6,275.00</u>
OUR EQUIPMENT PERFORMED WITHOUT BREAKDOWN?				<u>2</u>	<u>8,351.00</u>	
WE UNDERSTOOD AND MET YOUR NEEDS?				Total	<u>14,626.00</u>	
OUR SERVICE WAS PERFORMED WITHOUT DELAY?				<u>Kane</u>	<u>878.70</u>	
WE OPERATED THE EQUIPMENT AND PERFORMED JOB CALCULATIONS SATISFACTORILY?				TOTAL	<u>15504.70</u>	
ARE YOU SATISFIED WITH OUR SERVICE? <input type="checkbox"/> YES <input type="checkbox"/> NO	<input type="checkbox"/> CUSTOMER DID NOT WISH TO RESPOND					

CUSTOMER ACCEPTANCE OF MATERIALS AND SERVICES The customer hereby acknowledges receipt of the materials and services listed on this ticket.

SWIFT OPERATOR Gideon Fuchs APPROVAL Kyle Kane

Thank You!



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Item	Quantity	Description	Unit	Price	Total
1001	1	1001	1001	500	500
1002	1	1002	1002	500	500
1003	1	1003	1003	500	500
1004	1	1004	1004	500	500
1005	1	1005	1005	500	500
1006	1	1006	1006	500	500
1007	1	1007	1007	500	500
1008	1	1008	1008	500	500
1009	1	1009	1009	500	500
1010	1	1010	1010	500	500
1011	1	1011	1011	500	500
1012	1	1012	1012	500	500
1013	1	1013	1013	500	500
1014	1	1014	1014	500	500
1015	1	1015	1015	500	500
1016	1	1016	1016	500	500
1017	1	1017	1017	500	500
1018	1	1018	1018	500	500
1019	1	1019	1019	500	500
1020	1	1020	1020	500	500

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PO Box 466  
Ness City, KS 67560  
Off: 785-798-2300

TICKET CONTINUATION

TICKET No. 34044

CUSTOMER Citadel  
WELL Ramsey #2-30  
DATE 2-2-2020  
PAGE 2 OF 9

PRICE REFERENCE	SECONDARY REFERENCE/ PART NUMBER	ACCOUNTING			TIME	DESCRIPTION	WELL				UNIT PRICE		AMOUNT		
		LOC	ACCT	DF			QTY	U/M	QTY	U/M					
325		1				STANDARD CEMENT	225	SKS			14	50	3262	50	
284		1				Calseal	11	SKS			40	00	440	00	
283		1				SALT	1200	lbs			0	25	300	00	
292		1				Halad-322	150	lbs			8	90	1275	00	
277		1				GILSONITE	750	lbs			1	25	937	00	
276		1				Floccle	50	lbs			3	00	150	00	
281		1				Mud Flush	500	gal			1	50	750	00	
221		1				Liquid KCL	2	gal			25	00	50	00	
290		1				D-AIR	3	gal			42	00	126	00	
581		1				SERVICE CHARGE					2	00	450	00	
583		1				MILEAGE CHARGE					1	00	610	00	
						TOTAL WEIGHT	24,400		LOADED MILES		50				
						CUBIC FEET	225				2		450		
						TON MILES	610				1		610		
											CONTINUATION TOTAL		8351		00

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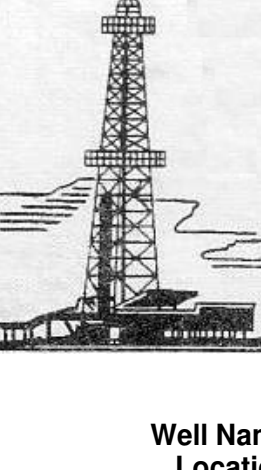
1880



# WELLSITE GEOLOGIST'S REPORT

VERNON C. SCHRAG  
CONSULTANT GEOLOGIST

Scale 1:240 (5"=100') Imperial



Well Name: **RAMSEY #2-30**  
 Location: **NE SE NE NW SEC 30-17S-30W**  
 Licence Number: **API: 15-101-22666**  
 Spud Date: **January 22, 2022**  
 Surface Coordinates: **808' FNL & 2685' FEL (irregular section east/west)**

Region: **Lane Co., KS**  
 Drilling Completed: **February 1, 2022**

Bottom Hole Coordinates:  
 Ground Elevation (ft): **2894'**  
 Logged Interval (ft): **3600'**  
 Formation: **Mississippi**  
 Type of Drilling Fluid: **Chemical Premix (Displaced)**

K.B. Elevation (ft): **2904'**  
 To: **RTD** Total Depth (ft): **4560'**  
 Printed by **MUD.LOG** from WellSight Systems 1-800-447-1534 www.WellSight.com

### OPERATOR:

Company: **CITADEL OIL, LLC**  
 Address: **PO Box 1410  
 Edmond, OK 73083-1410**

### DRILLING CONTRACTOR:

**Southwind Drilling Co., Rig #8**

**DP 4.5" XH (16.6#); DC 512.69', 6-1/4" x 2-3/8", Kelly 40.00', Tool Joint 5.5"; Uphole Bit: PDC JZ-PL516, Downhole Bit: JZ HA33X, 7-7/8", standard jets 15s; rpm 80, WOB 35k; Kelly Bushing 10' above ground level; Doug Roberts (tool pusher).**

### CASING:

**Ran 6 joints of new 23#, 8 5/8" casing, tally @ 256', set @ 268'**

**Ran 107 joints of new 11.6#, 4 1/2" casing, tally @ 4527', set @ 4527'; port collar set @ 2255'**

### CIRCULATION SYSTEM:

**Continental EMSCO D-350, duplex, 6 x 14, 58 spm, Chemical, premix, earth pits, MudCo/Service Mud, Inc., Reid Atkins.**

### GAS DETECTION SYSTEM:

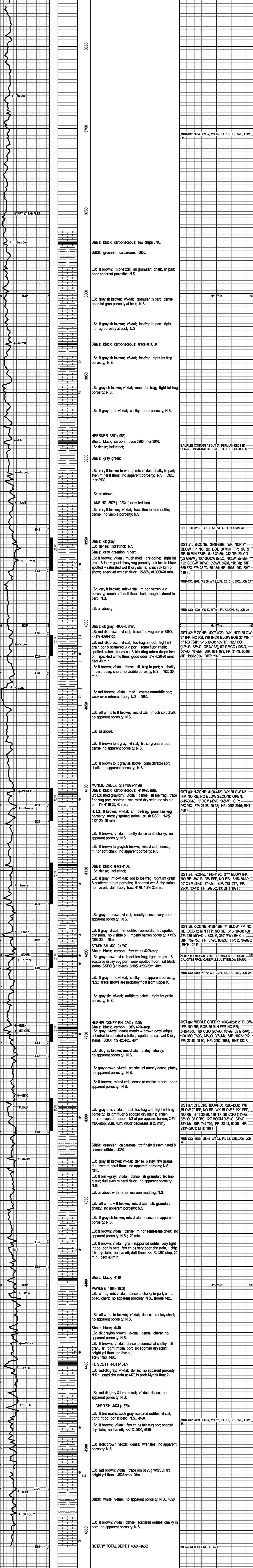
**None.**

### DRILL STEM TESTS:

**Trilobite Testing, Inc., Scott City, KS, Martine Salinas.**

### OPEN HOLE LOGS:

**DN, DI (SP), ML, Single Run, No Sonic, 5" detail LTD-3600; 2" DI to surface casing; Midwest Wireline, Hays, KS, Dan Schmidt.**





## DRILL STEM TEST REPORT

Prepared For: **Citadel Oil LLC**

PO Box 1410  
Edmond, OK 73083

ATTN: Vern Schrag

### **Ramsey #2-30**

### **30-17S.-30W Lane,KS**

Start Date: 2022.01.27 @ 02:50:00

End Date: 2022.01.27 @ 10:37:30

Job Ticket #: 68030                      DST #: 1

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

ph: 785-625-4778 fax: 785-625-5620

Printed: 2022.02.03 @ 11:45:00



**TRILOBITE TESTING, INC**

# DRILL STEM TEST REPORT

Citadel Oil LLC

**30-17S.-30W Lane,KS**

PO Box 1410  
Edmond, OK 73083

**Ramsey #2-30**

Job Ticket: 68030

**DST#: 1**

ATTN: Vern Schrag

Test Start: 2022.01.27 @ 02:50:00

## GENERAL INFORMATION:

Formation: **Lansing " B "**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 06:21:00

Time Test Ended: 10:37:30

Test Type: Conventional Bottom Hole (Initial)

Tester: Martine Salinas

Unit No: 81

Interval: **3948.00 ft (KB) To 3968.00 ft (KB) (TVD)**

Reference Elevations: 2904.00 ft (KB)

Total Depth: 3968.00 ft (KB) (TVD)

2896.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 8.00 ft

**Serial #: 8734 Outside**

Press@RunDepth: 133.51 psig @ 3949.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2022.01.27 End Date: 2022.01.27

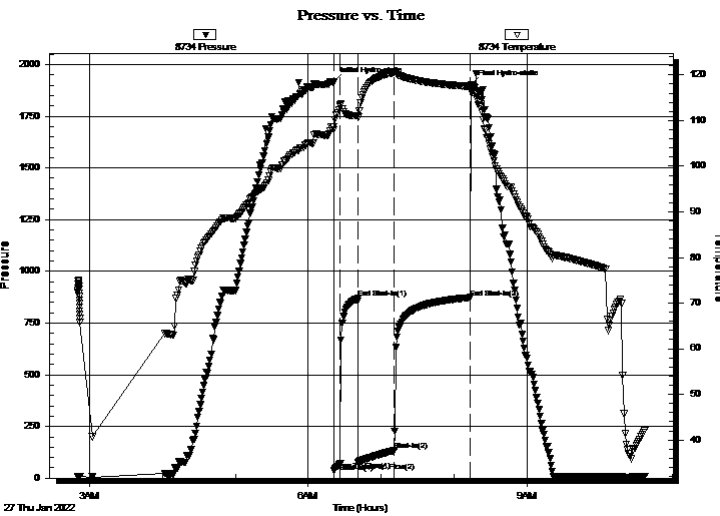
Last Calib.: 2022.01.27

Start Time: 02:50:01 End Time: 10:37:30

Time On Btm: 2022.01.27 @ 06:20:40

Time Off Btm: 2022.01.27 @ 08:14:09

**TEST COMMENT:** 5-IF-Blow built to 3"  
15-ISI-No return  
30-FF-Blow built to B.O.B (11 inches) @ 30 mins  
60-FSI-Return blow @ 10 mins built to 1/4"dead @ 44 mins



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1915.04	108.61	Initial Hydro-static
1	36.09	108.07	Open To Flow (1)
6	72.51	113.52	Shut-In(1)
21	869.16	111.08	End Shut-In(1)
21	76.24	110.72	Open To Flow (2)
51	133.51	120.48	Shut-In(2)
113	873.36	117.46	End Shut-In(2)
114	1902.71	116.38	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
122.00	SMOCW 5%M, 10%O, 85%W	0.60
100.00	SOMCW 5%O, 25%M, 70%W	1.40
20.00	100% CO	0.28

## Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)



**TRILOBITE**  
**TESTING, INC.**

# DRILL STEM TEST REPORT

Citadel Oil LLC

**30-17S.-30W Lane,KS**

PO Box 1410  
Edmond, OK 73083

**Ramsey #2-30**

Job Ticket: 68030

**DST#: 1**

ATTN: Vern Schrag

Test Start: 2022.01.27 @ 02:50:00

## GENERAL INFORMATION:

Formation: **Lansing " B "**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 06:21:00

Time Test Ended: 10:37:30

Test Type: Conventional Bottom Hole (Initial)

Tester: Martine Salinas

Unit No: 81

**Interval: 3948.00 ft (KB) To 3968.00 ft (KB) (TVD)**

Reference Elevations: 2904.00 ft (KB)

Total Depth: 3968.00 ft (KB) (TVD)

2896.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 8.00 ft

**Serial #: 8959 Inside**

Press@RunDepth: psig @ 3949.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2022.01.27 End Date: 2022.01.27

Last Calib.: 2022.01.27

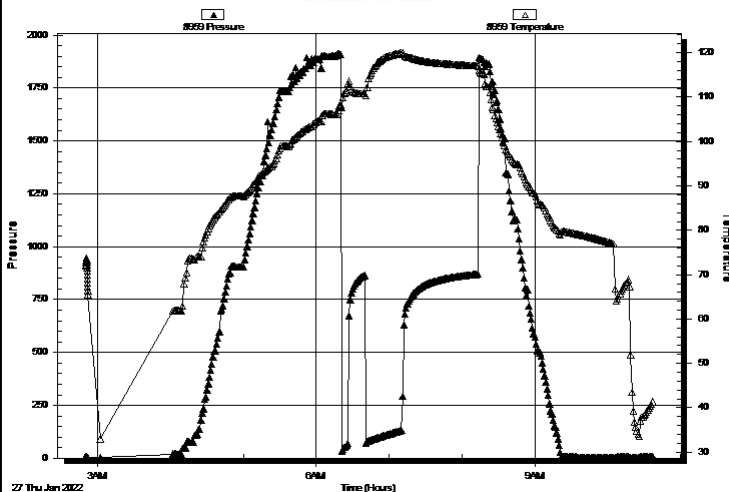
Start Time: 02:50:01 End Time: 10:37:30

Time On Btm:

Time Off Btm:

**TEST COMMENT:** 5-IF-Blow built to 3"  
15-ISI-No return  
30-FF-Blow built to B.O.B (11 inches) @ 30 mins  
60-FSI-Return blow @ 10 mins built to 1/4" dead @ 44 mins

Pressure vs. Time



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation

## Recovery

Length (ft)	Description	Volume (bbl)
122.00	SMOCW 5%M, 10%O, 85%W	0.60
100.00	SOMCW 5%O, 25%M, 70%W	1.40
20.00	100% CO	0.28

## Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)





**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

**TOOL DIAGRAM**

Citadel Oil LLC

**30-17S.-30W Lane,KS**

PO Box 1410  
Edmond, OK 73083

**Ramsey #2-30**

Job Ticket: 68030

**DST#: 1**

ATTN: Vern Schrag

Test Start: 2022.01.27 @ 02:50:00

## Tool Information

Drill Pipe:	Length: 3806.00 ft	Diameter: 3.80 inches	Volume: 53.39 bbl	Tool Weight: 2500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 2.75 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 122.00 ft	Diameter: 2.25 inches	Volume: 0.60 bbl	Weight to Pull Loose: 65000.00 lb
			<u>Total Volume: 53.99 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	13.00 ft			String Weight: Initial 55000.00 lb
Depth to Top Packer:	3948.00 ft			Final 55000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	20.00 ft			
Tool Length:	53.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

## Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			3916.00	
Shut In Tool	5.00			3921.00	
Hydraulic tool	5.00	1113		3926.00	
Jars	5.00	01-07		3931.00	
EM Tool	5.00			3936.00	
Safety Joint	3.00	-001		3939.00	
Packer	5.00			3944.00	33.00 Bottom Of Top Packer
Packer	4.00			3948.00	
Stubb	1.00			3949.00	
Recorder	0.00	8959	Inside	3949.00	
Recorder	0.00	8734	Outside	3949.00	
Perforations	14.00			3963.00	
Bullnose	5.00			3968.00	20.00 Bottom Packers & Anchor

**Total Tool Length: 53.00**



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

Citadel Oil LLC

**30-17S.-30W Lane,KS**

PO Box 1410  
Edmond, OK 73083

**Ramsey #2-30**

Job Ticket: 68030

**DST#: 1**

ATTN: Vern Schrag

Test Start: 2022.01.27 @ 02:50:00

## Mud and Cushion Information

Mud Type: Gel Chem  
Mud Weight: 9.00 lb/gal  
Viscosity: 49.00 sec/qt  
Water Loss: 6.77 in<sup>3</sup>  
Resistivity: ohm.m  
Salinity: 1400.00 ppm  
Filter Cake: 1.00 inches

Cushion Type:  
Cushion Length: ft  
Cushion Volume: bbl  
Gas Cushion Type:  
Gas Cushion Pressure: psig

Oil API: 23 deg API  
Water Salinity: 11000 ppm

## Recovery Information

Recovery Table

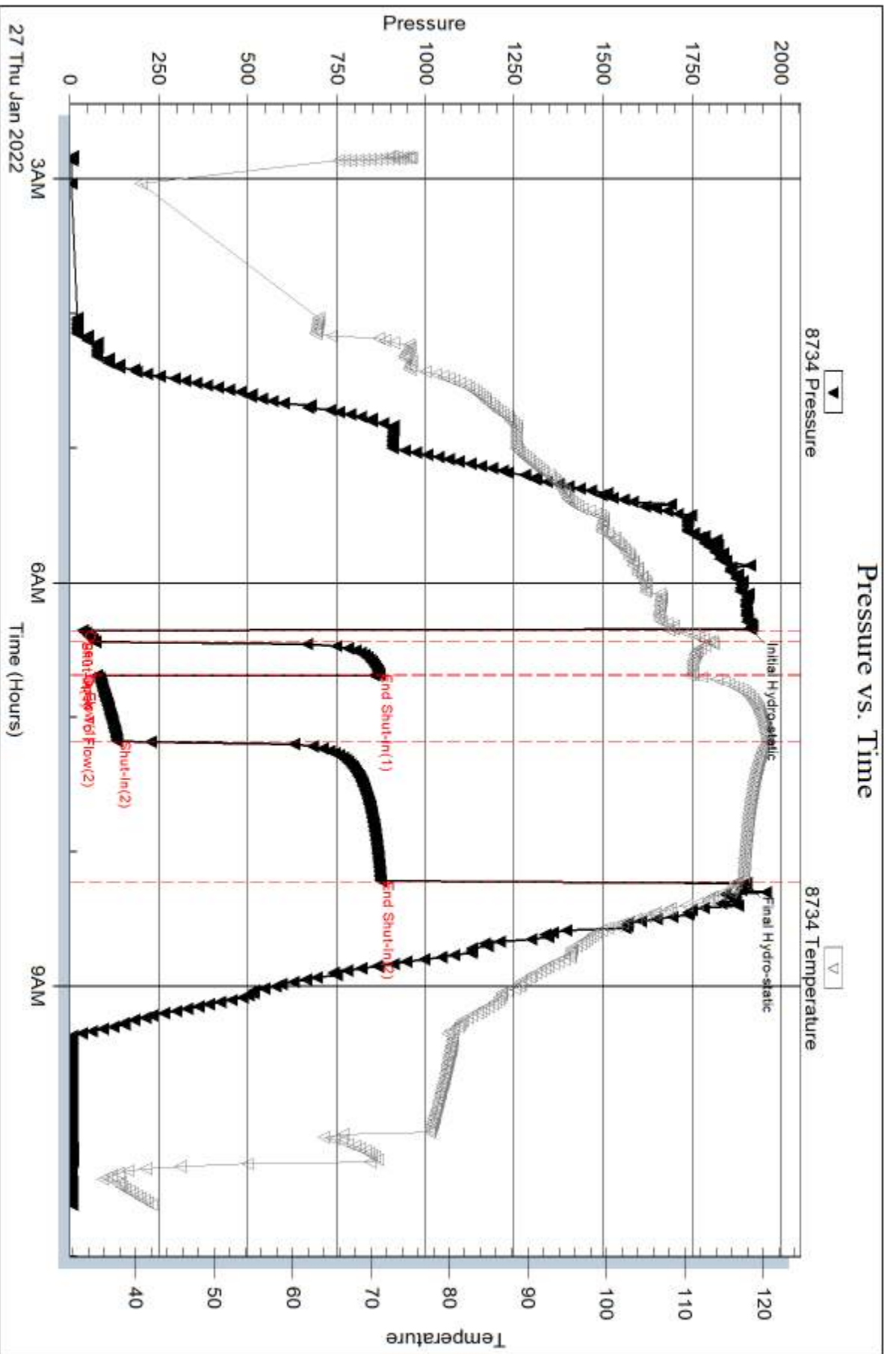
Length ft	Description	Volume bbl
122.00	SMOCW 5%M, 10%O, 85%W	0.600
100.00	SOMCW 5%O, 25%M, 70%W	1.403
20.00	100% CO	0.281

Total Length: 242.00 ft      Total Volume: 2.284 bbl

Num Fluid Samples: 0      Num Gas Bombs: 0      Serial #:

Laboratory Name:      Laboratory Location:

Recovery Comments: Gravity of oil = 22.8 @ 58 degs corrected to 23 @ 60 degs  
RW = .75 @ 54 degs = 11,000 PPM



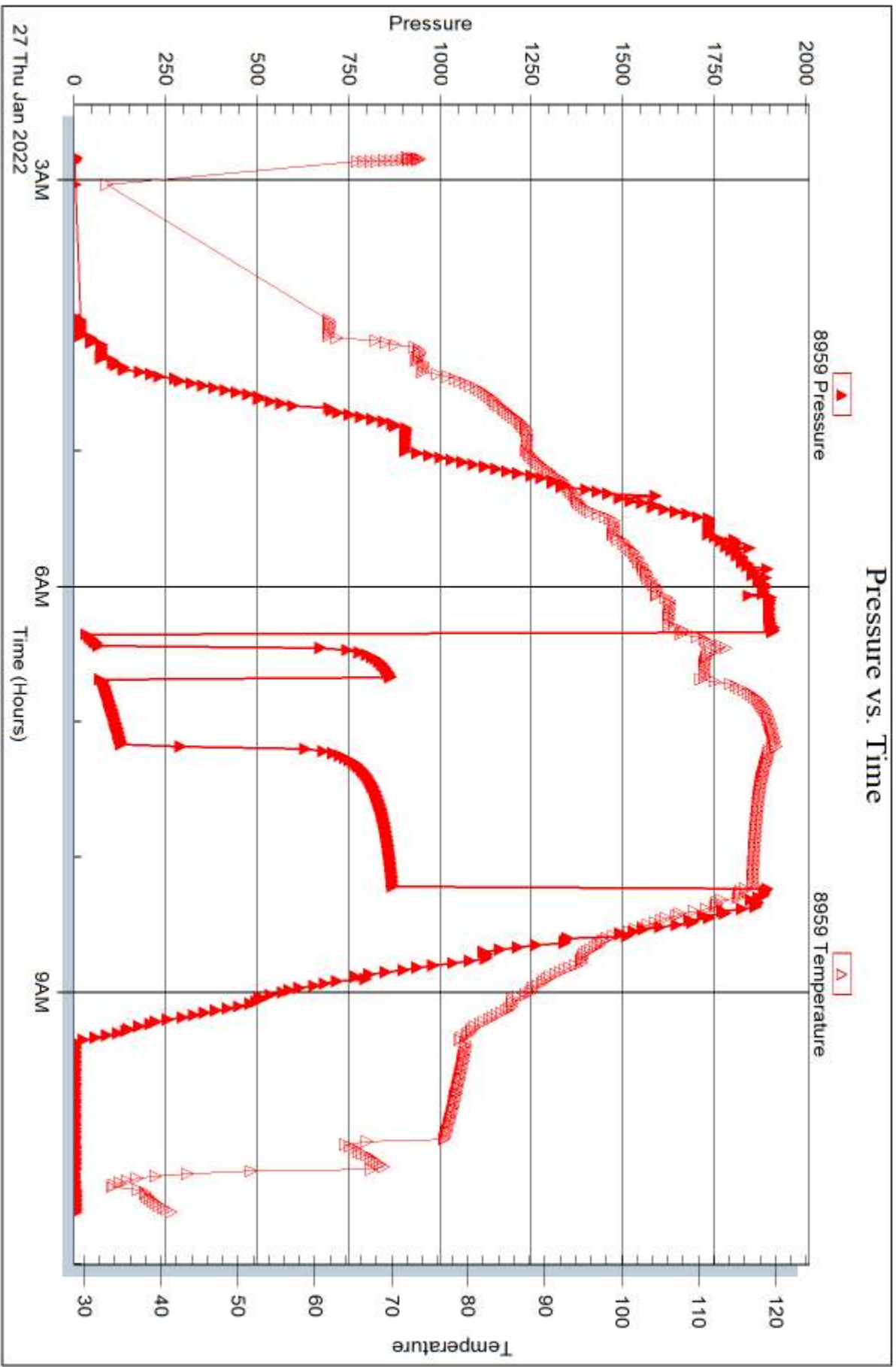
Serial #: 8959

Inside

Citadel Oil LLC

Ramsey #2-30

DST Test Number: 1





## DRILL STEM TEST REPORT

Prepared For: **Citadel Oil LLC**

PO Box 1410  
Edmond, OK 73083

ATTN: Vern Schrag

### **Ramsey #2-30**

### **30-17S.-30W Lane,KS**

Start Date: 2022.01.27 @ 20:10:00

End Date: 2022.01.28 @ 03:14:30

Job Ticket #: 68031                      DST #: 2

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

ph: 785-625-4778 fax: 785-625-5620

Printed: 2022.02.03 @ 11:44:34



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

Citadel Oil LLC

**30-17S.-30W Lane,KS**

PO Box 1410  
Edmond, OK 73083

**Ramsey #2-30**

Job Ticket: 68031

**DST#: 2**

ATTN: Vern Schrag

Test Start: 2022.01.27 @ 20:10:00

## GENERAL INFORMATION:

Formation: **Lansing " E "**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 22:32:50

Time Test Ended: 03:14:30

Test Type: Conventional Bottom Hole (Reset)

Tester: Martine Salinas

Unit No: 81

**Interval: 4007.00 ft (KB) To 4020.00 ft (KB) (TVD)**

Total Depth: 3968.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Good

Reference Elevations: 2904.00 ft (KB)

2896.00 ft (CF)

KB to GR/CF: 8.00 ft

**Serial #: 8734 Outside**

Press@RunDepth: 96.35 psig @ 4008.00 ft (KB)

Start Date: 2022.01.27

End Date:

2022.01.28

Start Time: 20:10:01

End Time:

03:14:30

Capacity: 8000.00 psig

Last Calib.: 2022.01.28

Time On Btm: 2022.01.27 @ 22:32:40

Time Off Btm: 2022.01.28 @ 00:26:39

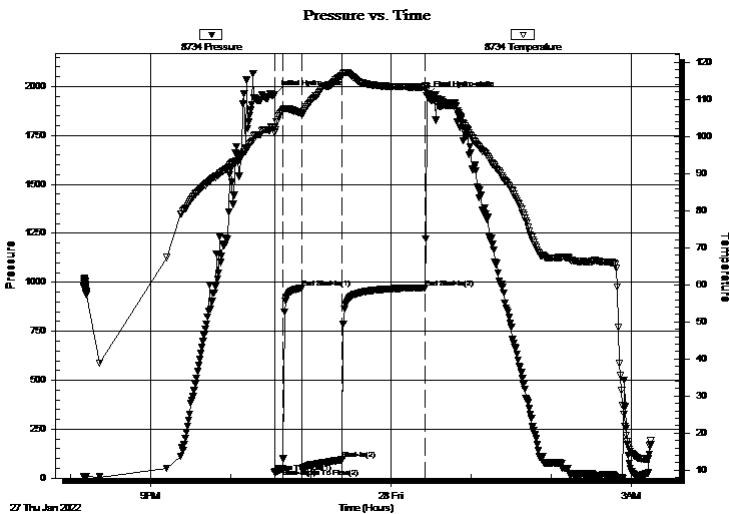
TEST COMMENT: 5-IF-S.blow built to 3"

15-ISI-No return

30-FF-blow built to B.O.B (11 inches) @ 27 mins(blow increased to 12 1/2")

60-FSI-Return blow built to 1"

## PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1957.72	102.33	Initial Hydro-static
1	30.61	101.19	Open To Flow (1)
7	49.19	107.03	Shut-In(1)
21	970.76	106.26	End Shut-In(1)
21	50.17	105.92	Open To Flow (2)
51	96.35	116.49	Shut-In(2)
113	972.75	113.32	End Shut-In(2)
114	1954.42	113.52	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
60.00	GHMCO 10%G, 40%M, 50%O	0.30
125.00	CGO 12%G, 88%O	1.19

## Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)

\* Recovery from multiple tests



**TRILOBITE TESTING, INC**

# DRILL STEM TEST REPORT

Citadel Oil LLC

**30-17S.-30W Lane,KS**

PO Box 1410  
Edmond, OK 73083

**Ramsey #2-30**

ATTN: Vern Schrag

Job Ticket: 68031

**DST#: 2**

Test Start: 2022.01.27 @ 20:10:00

## GENERAL INFORMATION:

Formation: **Lansing " E "**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 22:32:50

Time Test Ended: 03:14:30

Test Type: Conventional Bottom Hole (Reset)

Tester: Martine Salinas

Unit No: 81

**Interval: 4007.00 ft (KB) To 4020.00 ft (KB) (TVD)**

Total Depth: 3968.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Good

Reference Elevations: 2904.00 ft (KB)

2896.00 ft (CF)

KB to GR/CF: 8.00 ft

**Serial #: 8959 Inside**

Press@RunDepth: psig @ 4008.00 ft (KB)

Start Date: 2022.01.27

End Date: 2022.01.28

Capacity: 8000.00 psig

Last Calib.: 2022.01.28

Start Time: 20:10:01

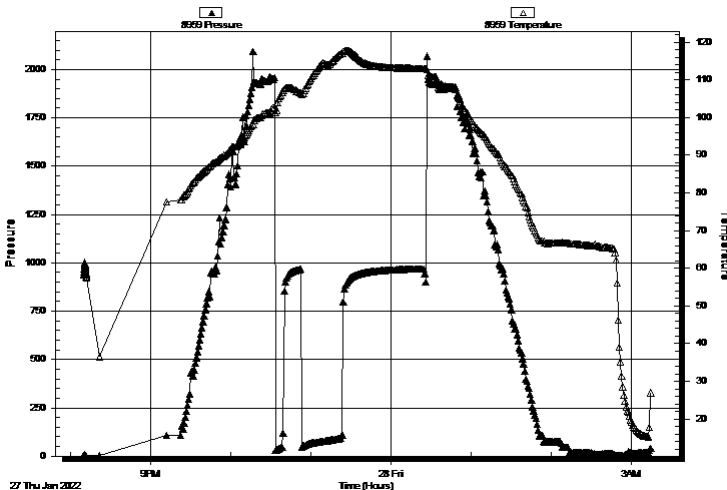
End Time: 03:14:30

Time On Btm:

Time Off Btm:

**TEST COMMENT:** 5-IF-S.blow built to 3"  
15-ISI-No return  
30-FF-blow built to B.O.B (11 inches) @ 27 mins (blow increased to 12 1/2")  
60-FSI-Return blow built to 1"

Pressure vs. Time



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation

## Recovery

Length (ft)	Description	Volume (bbl)
60.00	GHMCO 10%G, 40%M, 50%O	0.30
125.00	CGO 12%G, 88%O	1.19

## Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)

\* Recovery from multiple tests



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

**TOOL DIAGRAM**

Citadel Oil LLC

**30-17S.-30W Lane,KS**

PO Box 1410  
Edmond, OK 73083

**Ramsey #2-30**

Job Ticket: 68031

**DST#: 2**

ATTN: Vern Schrag

Test Start: 2022.01.27 @ 20:10:00

## Tool Information

Drill Pipe:	Length: 3870.00 ft	Diameter: 3.80 inches	Volume: 54.29 bbl	Tool Weight:	2500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 2.75 inches	Volume: 0.00 bbl	Weight set on Packer:	25000.00 lb
Drill Collar:	Length: 122.00 ft	Diameter: 2.25 inches	Volume: 0.60 bbl	Weight to Pull Loose:	70000.00 lb
			<u>Total Volume: 54.89 bbl</u>	Tool Chased	0.00 ft
Drill Pipe Above KB:	18.00 ft			String Weight: Initial	55000.00 lb
Depth to Top Packer:	4007.00 ft			Final	55000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	13.00 ft				
Tool Length:	46.00 ft				
Number of Packers:	2	Diameter:	6.75 inches		
Tool Comments:					

## Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			3975.00	
Shut In Tool	5.00			3980.00	
Hydraulic tool	5.00	1113		3985.00	
Jars	5.00	01-07		3990.00	
EM Tool	5.00			3995.00	
Safety Joint	3.00	-001		3998.00	
Packer	5.00			4003.00	33.00 Bottom Of Top Packer
Packer	4.00			4007.00	
Packer - Shale	0.00			4007.00	
Stubb	1.00			4008.00	
Recorder	0.00	8959	Inside	4008.00	
Recorder	0.00	8734	Outside	4008.00	
Perforations	7.00			4015.00	
Bullnose	5.00			4020.00	13.00 Bottom Packers & Anchor

**Total Tool Length: 46.00**





**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

## FLUID SUMMARY

Citadel Oil LLC

**30-17S.-30W Lane,KS**

PO Box 1410  
Edmond, OK 73083

**Ramsey #2-30**

Job Ticket: 68031

**DST#: 2**

ATTN: Vern Schrag

Test Start: 2022.01.27 @ 20:10:00

### Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

33 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 48.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.17 in<sup>3</sup>

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 2500.00 ppm

Filter Cake: 1.00 inches

### Recovery Information

Recovery Table

Length ft	Description	Volume bbl
60.00	GHMCO 10%G, 40%M, 50%O	0.295
125.00	CGO 12%G, 88%O	1.189

Total Length: 185.00 ft      Total Volume: 1.484 bbl

Num Fluid Samples: 0

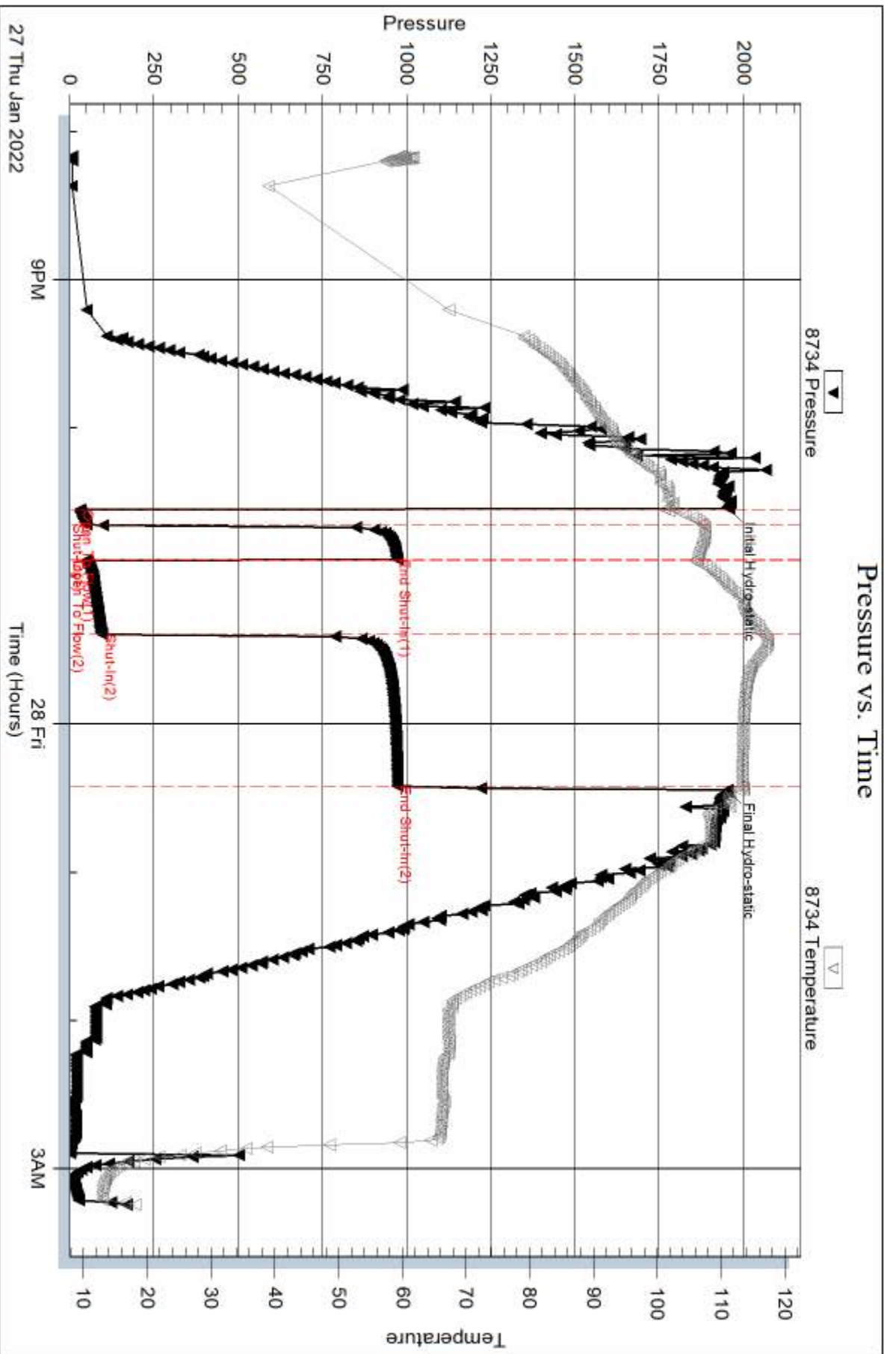
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: Gravity of oil = 31.8 @ 48 degs corrected to 33 @ 60 degs



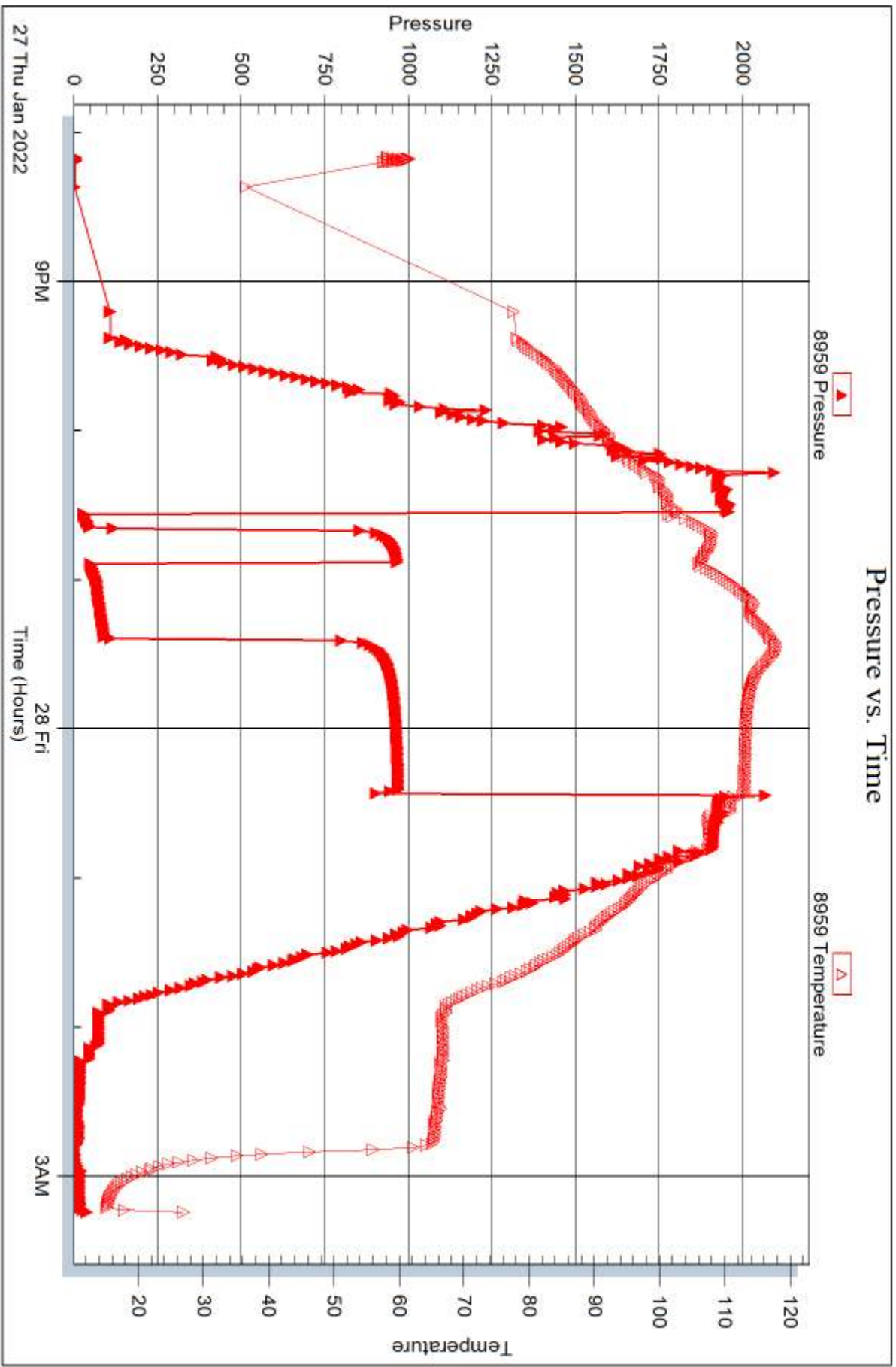
Serial #: 8959

Inside

Citadel Oil LLC

Ramsey #2-30

DST Test Number: 2





## DRILL STEM TEST REPORT

Prepared For: **Citadel Oil LLC**

PO Box 1410  
Edmond, OK 73083

ATTN: Vern Schrag

### **Ramsey #2-30**

### **30-17S.-30W Lane,KS**

Start Date: 2022.01.28 @ 18:30:00

End Date: 2022.01.29 @ 00:58:00

Job Ticket #: 68032                      DST #: 3

Trilobite Testing, Inc  
PO Box 362 Hays, KS 67601  
ph: 785-625-4778 fax: 785-625-5620

Printed: 2022.02.03 @ 11:39:54



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

Citadel Oil LLC

**30-17S.-30W Lane,KS**

PO Box 1410  
Edmond, OK 73083

**Ramsey #2-30**

Job Ticket: 68032

**DST#: 3**

ATTN: Vern Schrag

Test Start: 2022.01.28 @ 18:30:00

## GENERAL INFORMATION:

Formation: **Lansing " H "**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 20:42:50

Time Test Ended: 00:58:00

Test Type: Conventional Bottom Hole (Reset)

Tester: Martine Salinas

Unit No: 81

**Interval: 4100.00 ft (KB) To 4120.00 ft (KB) (TVD)**

Reference Elevations: 2904.00 ft (KB)

Total Depth: 3120.00 ft (KB) (TVD)

2896.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 8.00 ft

**Serial #: 8734 Outside**

Press@RunDepth: 33.17 psig @ 4101.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2022.01.28

End Date:

2022.01.29

Last Calib.:

2022.01.29

Start Time: 18:30:01

End Time:

00:58:00

Time On Btm:

2022.01.28 @ 20:42:40

Time Off Btm:

2022.01.28 @ 22:35:40

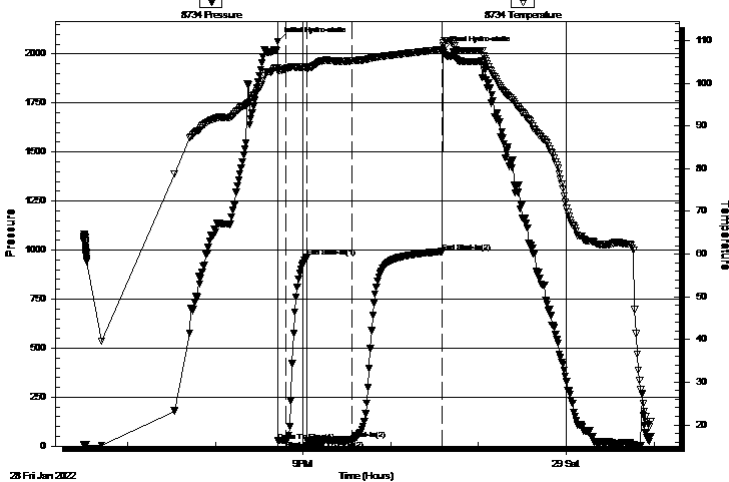
TEST COMMENT: 5-IF-S.blow built to 1/2"

15-ISI-No return

30-FF-No blow

60-FSI-No return

Pressure vs. Time



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2064.64	103.68	Initial Hydro-static
1	26.85	102.95	Open To Flow (1)
6	28.29	103.43	Shut-In(1)
20	963.13	103.82	End Shut-In(1)
21	28.77	103.30	Open To Flow (2)
51	33.17	105.24	Shut-In(2)
113	992.50	107.90	End Shut-In(2)
113	2014.75	108.67	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
5.00	OSM 4%O, 96%M	0.02

Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)

\* Recovery from multiple tests



**TRILOBITE TESTING, INC.**

**DRILL STEM TEST REPORT**

Citadel Oil LLC

**30-17S.-30W Lane,KS**

PO Box 1410  
Edmond, OK 73083

**Ramsey #2-30**

Job Ticket: 68032

**DST#: 3**

ATTN: Vern Schrag

Test Start: 2022.01.28 @ 18:30:00

**GENERAL INFORMATION:**

Formation: **Lansing " H "**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 20:42:50

Time Test Ended: 00:58:00

Test Type: Conventional Bottom Hole (Reset)

Tester: Martine Salinas

Unit No: 81

**Interval: 4100.00 ft (KB) To 4120.00 ft (KB) (TVD)**

Reference Elevations: 2904.00 ft (KB)

Total Depth: 3120.00 ft (KB) (TVD)

2896.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 8.00 ft

**Serial #: 8959 Inside**

Press@RunDepth: psig @ 4101.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2022.01.28

End Date:

2022.01.29

Last Calib.:

2022.01.29

Start Time: 18:30:01

End Time:

00:57:50

Time On Btm:

Time Off Btm:

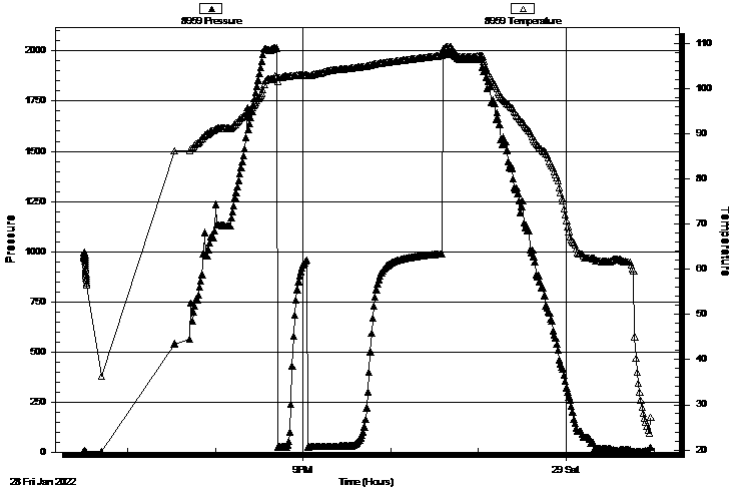
**TEST COMMENT:** 5-IF-S.blow built to 1/2"

15-ISI-No return

30-FF-No blow

60-FSI-No return

**Pressure vs. Time**



**PRESSURE SUMMARY**

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation

**Recovery**

Length (ft)	Description	Volume (bbl)
5.00	OSM 4%O, 96%M	0.02

**Gas Rates**

Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)

\* Recovery from multiple tests



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

**TOOL DIAGRAM**

Citadel Oil LLC

**30-17S.-30W Lane,KS**

PO Box 1410  
Edmond, OK 73083

**Ramsey #2-30**

Job Ticket: 68032

**DST#: 3**

ATTN: Vern Schrag

Test Start: 2022.01.28 @ 18:30:00

## Tool Information

Drill Pipe:	Length: 3965.00 ft	Diameter: 3.80 inches	Volume: 55.62 bbl	Tool Weight:	2500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 2.75 inches	Volume: 0.00 bbl	Weight set on Packer:	25000.00 lb
Drill Collar:	Length: 122.00 ft	Diameter: 2.25 inches	Volume: 0.60 bbl	Weight to Pull Loose:	65000.00 lb
			<u>Total Volume: 56.22 bbl</u>	Tool Chased	0.00 ft
Drill Pipe Above KB:	20.00 ft			String Weight: Initial	55000.00 lb
Depth to Top Packer:	4100.00 ft			Final	55000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	20.00 ft				
Tool Length:	53.00 ft				
Number of Packers:	2	Diameter: 6.75 inches			

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
------------------	-------------	------------	----------	------------	----------------

Change Over Sub	1.00			4068.00	
Shut In Tool	5.00			4073.00	
Hydraulic tool	5.00	1113		4078.00	
Jars	5.00	01-07		4083.00	
EM Tool	5.00			4088.00	
Safety Joint	3.00	-001		4091.00	
Packer	5.00			4096.00	33.00 Bottom Of Top Packer
Packer	4.00			4100.00	
Stubb	1.00			4101.00	
Recorder	0.00	8959	Inside	4101.00	
Recorder	0.00	8734	Outside	4101.00	
Perforations	14.00			4115.00	
Bullnose	5.00			4120.00	20.00 Bottom Packers & Anchor

**Total Tool Length: 53.00**



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

## FLUID SUMMARY

Citadel Oil LLC

**30-17S.-30W Lane,KS**

PO Box 1410  
Edmond, OK 73083

**Ramsey #2-30**

Job Ticket: 68032

**DST#: 3**

ATTN: Vern Schrag

Test Start: 2022.01.28 @ 18:30:00

### Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 52.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.18 in<sup>3</sup>

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 3000.00 ppm

Filter Cake: 1.00 inches

### Recovery Information

Recovery Table

Length ft	Description	Volume bbl
5.00	OSM 4%O, 96%M	0.025

Total Length: 5.00 ft      Total Volume: 0.025 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

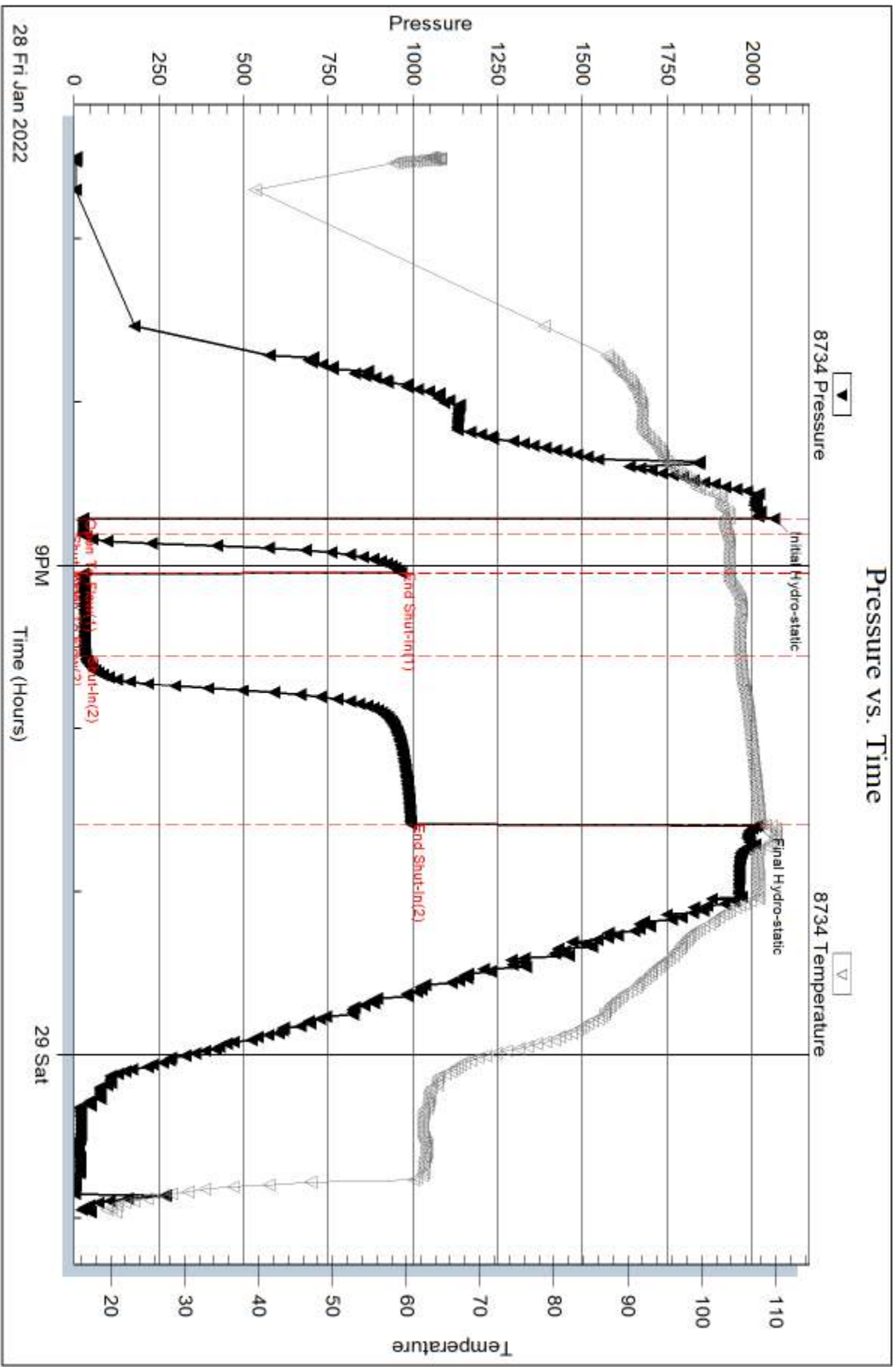


Serial #: 8734

Outside Citadel Oil LLC

Ramsey #2-30

DST Test Number: 3



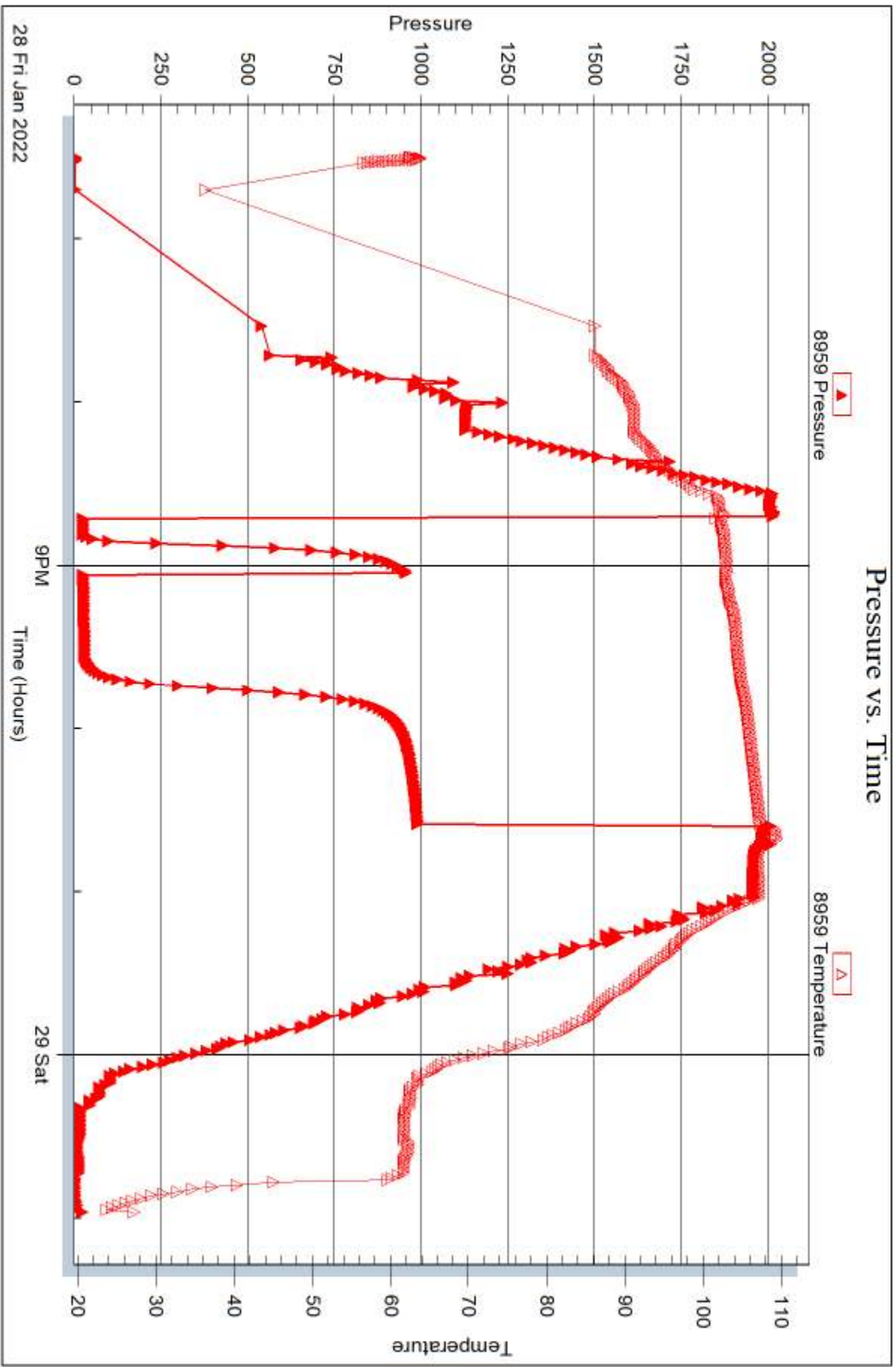
Serial #: 8959

Inside

Citadel Oil LLC

Ramsey #2-30

DST Test Number: 3



Trilobite Testing, Inc

Ref. No: 68032

Printed: 2022.02.03 @ 11:39:55



## DRILL STEM TEST REPORT

Prepared For: **Citadel Oil LLC**

PO Box 1410  
Edmond, OK 73083

ATTN: Vern Schrag

### **Ramsey #2-30**

### **30-17S.-30W Lane,KS**

Start Date: 2022.01.29 @ 10:50:00

End Date: 2022.01.29 @ 16:27:00

Job Ticket #: 68033                      DST #: 4

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

ph: 785-625-4778 fax: 785-625-5620

Printed: 2022.02.03 @ 11:38:15



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

Citadel Oil LLC

**30-17S.-30W Lane,KS**

PO Box 1410  
Edmond, OK 73083

**Ramsey #2-30**

Job Ticket: 68033

**DST#: 4**

ATTN: Vern Schrag

Test Start: 2022.01.29 @ 10:50:00

## GENERAL INFORMATION:

Formation: **" I " Zone**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 12:28:10

Time Test Ended: 16:27:00

Test Type: Conventional Bottom Hole (Reset)

Tester: Martine Salinas

Unit No: 81

**Interval: 4145.00 ft (KB) To 4170.00 ft (KB) (TVD)**

Reference Elevations: 2904.00 ft (KB)

Total Depth: 4170.00 ft (KB) (TVD)

2896.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 8.00 ft

**Serial #: 8734 Outside**

Press@RunDepth: 42.69 psig @ 4146.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2022.01.29 End Date: 2022.01.29

Last Calib.: 2022.01.29

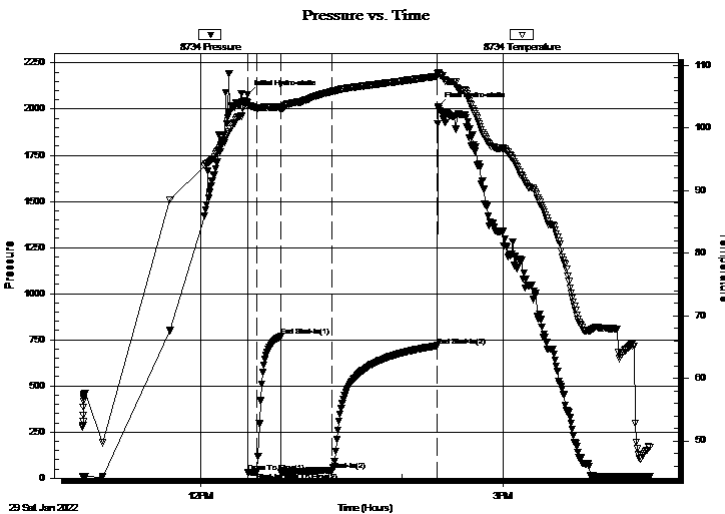
Start Time: 10:50:01 End Time: 16:27:00

Time On Btm: 2022.01.29 @ 12:28:00

Time Off Btm: 2022.01.29 @ 14:21:30

**TEST COMMENT:** 5-IF-S.blow built to 3/4"  
15-ISI-No return  
30-FF-S.blow built to 3/4"  
60-FSI-No return

## PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2077.91	104.08	Initial Hydro-static
1	28.92	103.30	Open To Flow (1)
6	30.87	103.15	Shut-In(1)
20	768.63	103.38	End Shut-In(1)
20	32.64	102.92	Open To Flow (2)
51	42.69	105.83	Shut-In(2)
113	717.47	108.23	End Shut-In(2)
114	2012.70	108.86	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
10.00	OSM 3%O, 97%M	0.05

\* Recovery from multiple tests

## Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)



# DRILL STEM TEST REPORT

Citadel Oil LLC

30-17S.-30W Lane, KS

PO Box 1410  
Edmond, OK 73083

Ramsey #2-30

Job Ticket: 68033

DST#: 4

ATTN: Vern Schrag

Test Start: 2022.01.29 @ 10:50:00

## GENERAL INFORMATION:

Formation: " I " Zone

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 12:28:10

Time Test Ended: 16:27:00

Test Type: Conventional Bottom Hole (Reset)

Tester: Martine Salinas

Unit No: 81

Interval: 4145.00 ft (KB) To 4170.00 ft (KB) (TVD)

Reference Elevations: 2904.00 ft (KB)

Total Depth: 4170.00 ft (KB) (TVD)

2896.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 8.00 ft

Serial #: 8959 Inside

Press@RunDepth: psig @ 4146.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2022.01.29

End Date:

2022.01.29

Last Calib.:

2022.01.29

Start Time: 10:50:01

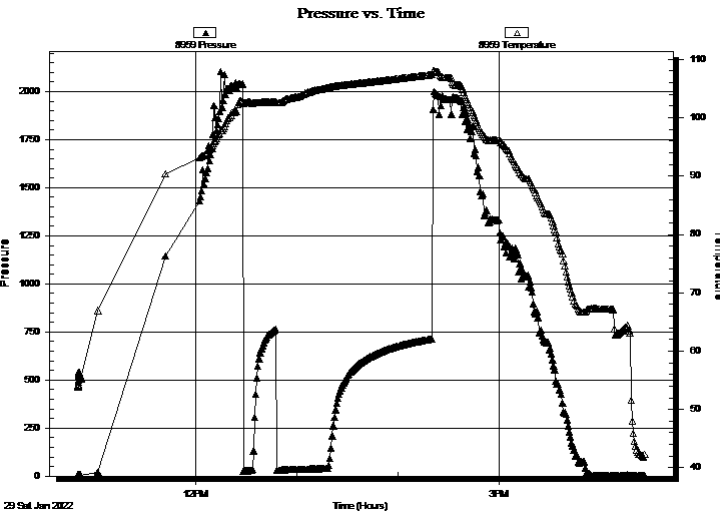
End Time:

16:26:50

Time On Btm:

Time Off Btm:

TEST COMMENT: 5-IF-S.blow built to 3/4"  
15-ISI-No return  
30-FF-S.blow built to 3/4"  
60-FSI-No return



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation

## Recovery

Length (ft)	Description	Volume (bbl)
10.00	OSM 3%O, 97%M	0.05

\* Recovery from multiple tests

## Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

**TOOL DIAGRAM**

Citadel Oil LLC

**30-17S.-30W Lane,KS**

PO Box 1410  
Edmond, OK 73083

**Ramsey #2-30**

Job Ticket: 68033

**DST#: 4**

ATTN: Vern Schrag

Test Start: 2022.01.29 @ 10:50:00

## Tool Information

Drill Pipe:	Length: 3997.00 ft	Diameter: 3.80 inches	Volume: 56.07 bbl	Tool Weight:	2500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 2.75 inches	Volume: 0.00 bbl	Weight set on Packer:	25000.00 lb
Drill Collar:	Length: 122.00 ft	Diameter: 2.25 inches	Volume: 0.60 bbl	Weight to Pull Loose:	65000.00 lb
			<u>Total Volume: 56.67 bbl</u>	Tool Chased	0.00 ft
Drill Pipe Above KB:	7.00 ft			String Weight: Initial	57000.00 lb
Depth to Top Packer:	4145.00 ft			Final	57000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	25.00 ft				
Tool Length:	58.00 ft				
Number of Packers:	2	Diameter: 6.75 inches			

Tool Comments:

## Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			4113.00	
Shut In Tool	5.00			4118.00	
Hydraulic tool	5.00	1113		4123.00	
Jars	5.00	01-07		4128.00	
EM Tool	5.00			4133.00	
Safety Joint	3.00	-001		4136.00	
Packer	5.00			4141.00	33.00 Bottom Of Top Packer
Packer	4.00			4145.00	
Stubb	1.00			4146.00	
Recorder	0.00	8959	Inside	4146.00	
Recorder	0.00	8734	Outside	4146.00	
Perforations	19.00			4165.00	
Bullnose	5.00			4170.00	25.00 Bottom Packers & Anchor

**Total Tool Length: 58.00**



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

## FLUID SUMMARY

Citadel Oil LLC

**30-17S.-30W Lane,KS**

PO Box 1410  
Edmond, OK 73083

**Ramsey #2-30**

Job Ticket: 68033

**DST#: 4**

ATTN: Vern Schrag

Test Start: 2022.01.29 @ 10:50:00

### Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 52.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.18 in<sup>3</sup>

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 3000.00 ppm

Filter Cake: 1.00 inches

### Recovery Information

Recovery Table

Length ft	Description	Volume bbl
10.00	OSM 3%O, 97%M	0.049

Total Length: 10.00 ft      Total Volume: 0.049 bbl

Num Fluid Samples: 0

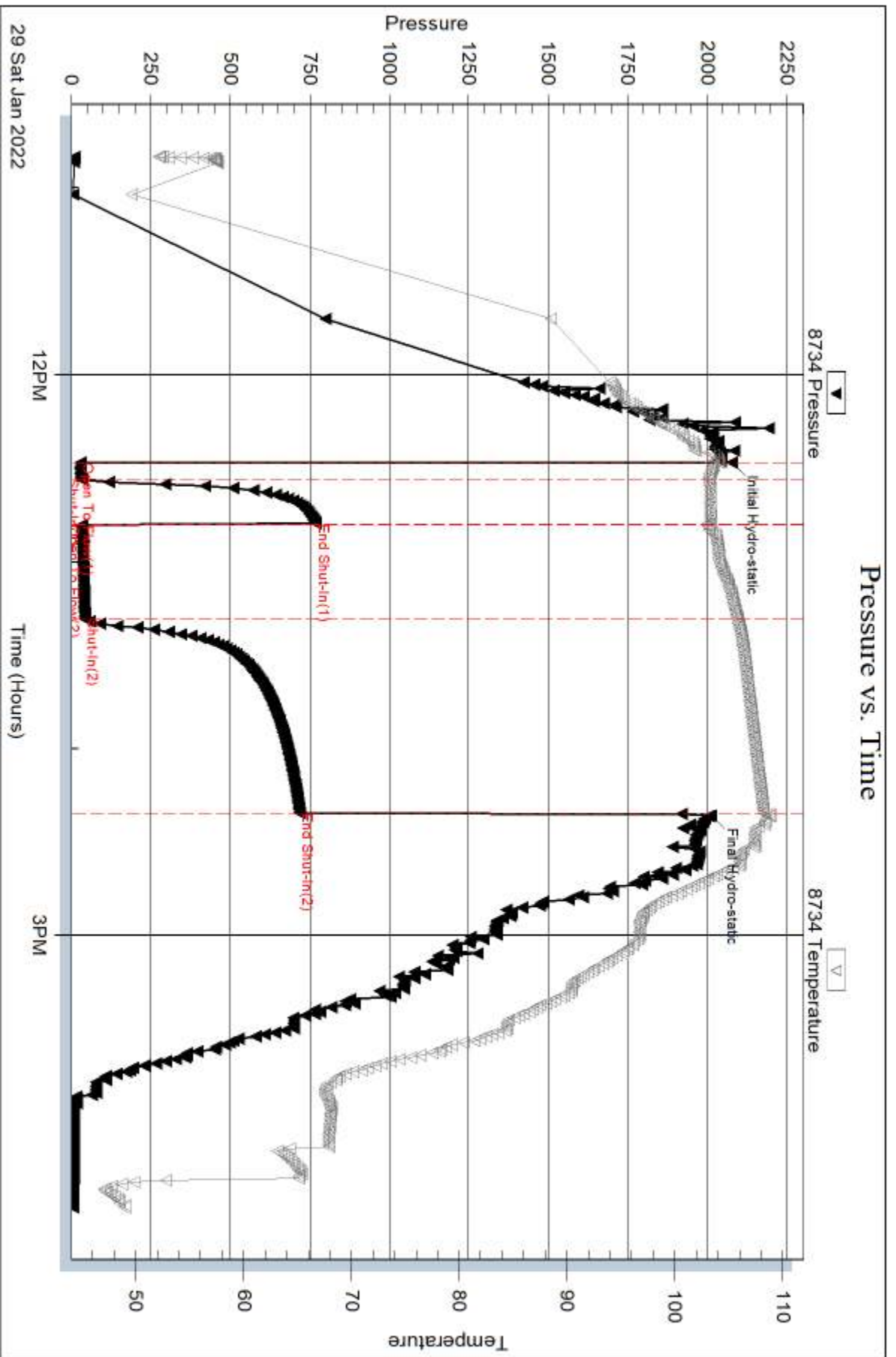
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:





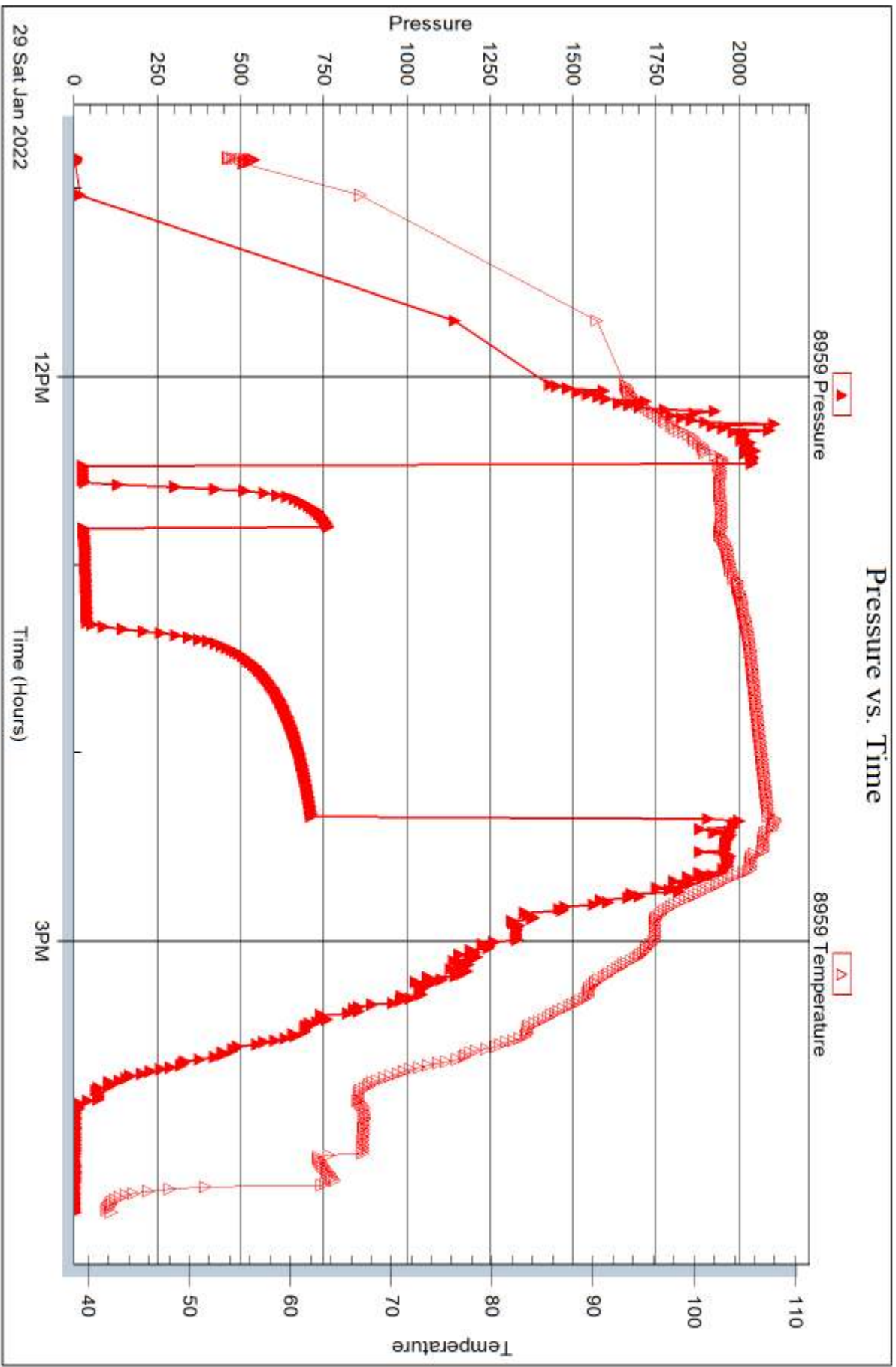
Serial #: 8959

Inside

Citadel Oil LLC

Ramsey #2-30

DST Test Number: 4



Triobite Testing, Inc

Ref. No: 68033

Printed: 2022.02.03 @ 11:38:18



## DRILL STEM TEST REPORT

Prepared For: **Citadel Oil LLC**

PO Box 1410  
Edmond, OK 73083

ATTN: Vern Schrag

### **Ramsey #2-30**

### **30-17S.-30W Lane,KS**

Start Date: 2022.01.30 @ 03:33:00

End Date: 2022.01.30 @ 09:42:30

Job Ticket #: 68034                      DST #: 5

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

ph: 785-625-4778 fax: 785-625-5620

Printed: 2022.02.03 @ 11:37:46



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

Citadel Oil LLC

**30-17S.-30W Lane,KS**

PO Box 1410  
Edmond, OK 73083

**Ramsey #2-30**

Job Ticket: 68034

**DST#: 5**

ATTN: Vern Schrag

Test Start: 2022.01.30 @ 03:33:00

## GENERAL INFORMATION:

Formation: **LKC " K "**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 05:33:50

Time Test Ended: 09:42:30

Test Type: Conventional Bottom Hole (Reset)

Tester: Martine Salinas

Unit No: 81

**Interval: 4198.00 ft (KB) To 4209.00 ft (KB) (TVD)**

Reference Elevations: 2904.00 ft (KB)

Total Depth: 4209.00 ft (KB) (TVD)

2896.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 8.00 ft

**Serial #: 8734 Outside**

Press@RunDepth: 237.75 psig @ 4199.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2022.01.30 End Date: 2022.01.30

Last Calib.: 2022.01.30

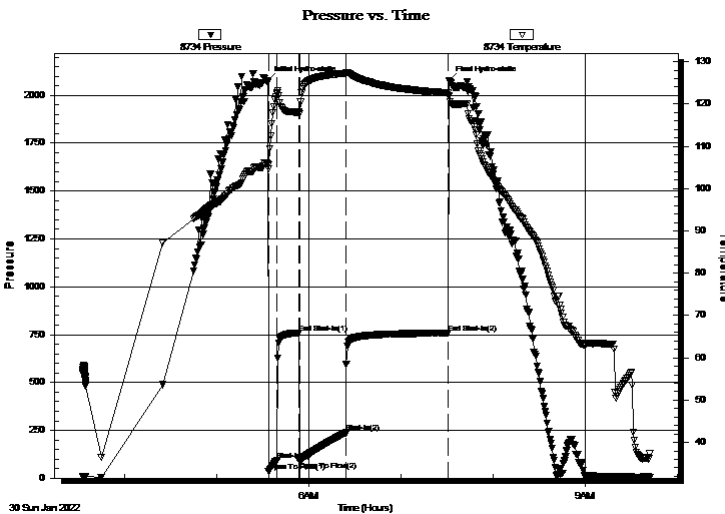
Start Time: 03:33:01 End Time: 09:42:30

Time On Btm: 2022.01.30 @ 05:33:40

Time Off Btm: 2022.01.30 @ 07:31:30

**TEST COMMENT:** 5-IF-Blow built to 7"  
15-ISI-No return  
30-FF-B.O.B (11 inches) @ 12 mins (blow increased to 29")  
60-FSI-No return

## PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2075.64	105.94	Initial Hydro-static
1	37.06	104.69	Open To Flow (1)
6	92.69	122.75	Shut-In(1)
21	758.77	118.10	End Shut-In(1)
21	87.71	117.68	Open To Flow (2)
51	237.75	127.28	Shut-In(2)
117	758.04	122.61	End Shut-In(2)
118	2078.16	121.80	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
330.00	MSW 2%M, 98%W	3.52
120.00	MCW w/Oil scum 25%M, 75%W	1.68

\* Recovery from multiple tests

## Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)



**TRILOBITE TESTING, INC.**

# DRILL STEM TEST REPORT

Citadel Oil LLC

**30-17S.-30W Lane, KS**

PO Box 1410  
Edmond, OK 73083

**Ramsey #2-30**

Job Ticket: 68034

**DST#: 5**

ATTN: Vern Schrag

Test Start: 2022.01.30 @ 03:33:00

## GENERAL INFORMATION:

Formation: **LKC "K"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 05:33:50

Time Test Ended: 09:42:30

Test Type: Conventional Bottom Hole (Reset)

Tester: Martine Salinas

Unit No: 81

**Interval: 4198.00 ft (KB) To 4209.00 ft (KB) (TVD)**

Total Depth: 4209.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Good

Reference Elevations: 2904.00 ft (KB)

2896.00 ft (CF)

KB to GR/CF: 8.00 ft

**Serial #: 8959 Inside**

Press@RunDepth: psig @ 4199.00 ft (KB)

Start Date: 2022.01.30

End Date: 2022.01.30

Start Time: 03:33:01

End Time: 09:42:30

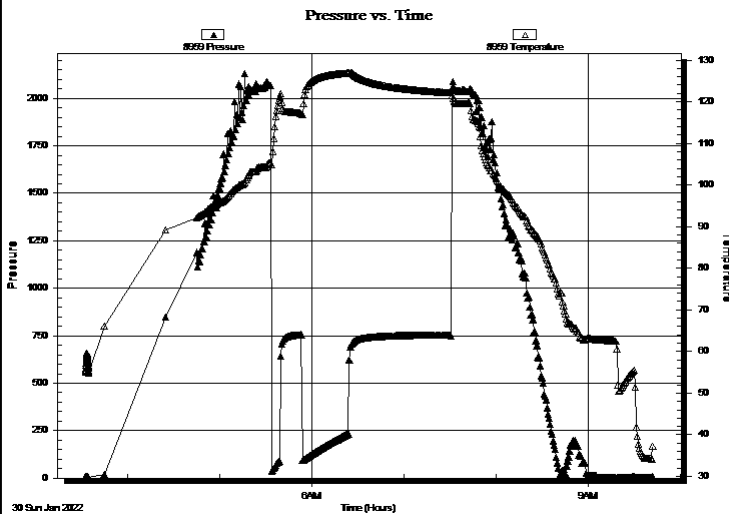
Capacity: 8000.00 psig

Last Calib.: 2022.01.30

Time On Btm:

Time Off Btm:

**TEST COMMENT:** 5-IF-Blow built to 7"  
15-ISI-No return  
30-FF-B.O.B (11 inches) @ 12 mins (blow increased to 29")  
60-FSI-No return



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation

## Recovery

Length (ft)	Description	Volume (bbl)
330.00	MSW 2%M, 98%W	3.52
120.00	MCW w/Oil scum 25%M, 75%W	1.68

## Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)

\* Recovery from multiple tests



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

**TOOL DIAGRAM**

Citadel Oil LLC

**30-17S.-30W Lane,KS**

PO Box 1410  
Edmond, OK 73083

**Ramsey #2-30**

Job Ticket: 68034

**DST#: 5**

ATTN: Vern Schrag

Test Start: 2022.01.30 @ 03:33:00

## Tool Information

Drill Pipe:	Length: 4061.00 ft	Diameter: 3.80 inches	Volume: 56.97 bbl	Tool Weight:	2500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 2.75 inches	Volume: 0.00 bbl	Weight set on Packer:	25000.00 lb
Drill Collar:	Length: 122.00 ft	Diameter: 2.25 inches	Volume: 0.60 bbl	Weight to Pull Loose:	65000.00 lb
			<u>Total Volume: 57.57 bbl</u>	Tool Chased	0.00 ft
Drill Pipe Above KB:	18.00 ft			String Weight: Initial	67000.00 lb
Depth to Top Packer:	4198.00 ft			Final	57000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	11.00 ft				
Tool Length:	44.00 ft				
Number of Packers:	2	Diameter: 6.75 inches			
Tool Comments:					

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
------------------	-------------	------------	----------	------------	----------------

Change Over Sub	1.00			4166.00	
Shut In Tool	5.00			4171.00	
Hydraulic tool	5.00	1113		4176.00	
Jars	5.00	01-07		4181.00	
EM Tool	5.00			4186.00	
Safety Joint	3.00	-001		4189.00	
Packer	5.00			4194.00	33.00 Bottom Of Top Packer
Packer	4.00			4198.00	
Stubb	1.00			4199.00	
Recorder	0.00	8959	Inside	4199.00	
Recorder	0.00	8734	Outside	4199.00	
Perforations	5.00			4204.00	
Bullnose	5.00			4209.00	11.00 Bottom Packers & Anchor

**Total Tool Length: 44.00**



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

## FLUID SUMMARY

Citadel Oil LLC

**30-17S.-30W Lane,KS**

PO Box 1410  
Edmond, OK 73083

**Ramsey #2-30**

Job Ticket: 68034

**DST#: 5**

ATTN: Vern Schrag

Test Start: 2022.01.30 @ 03:33:00

### Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

19000 ppm

Viscosity: 49.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 6.76 in<sup>3</sup>

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 1400.00 ppm

Filter Cake: 1.00 inches

### Recovery Information

Recovery Table

Length ft	Description	Volume bbl
330.00	MSW 2%M, 98%W	3.518
120.00	MCW w/Oil scum 25%M, 75%W	1.683

Total Length: 450.00 ft      Total Volume: 5.201 bbl

Num Fluid Samples: 0

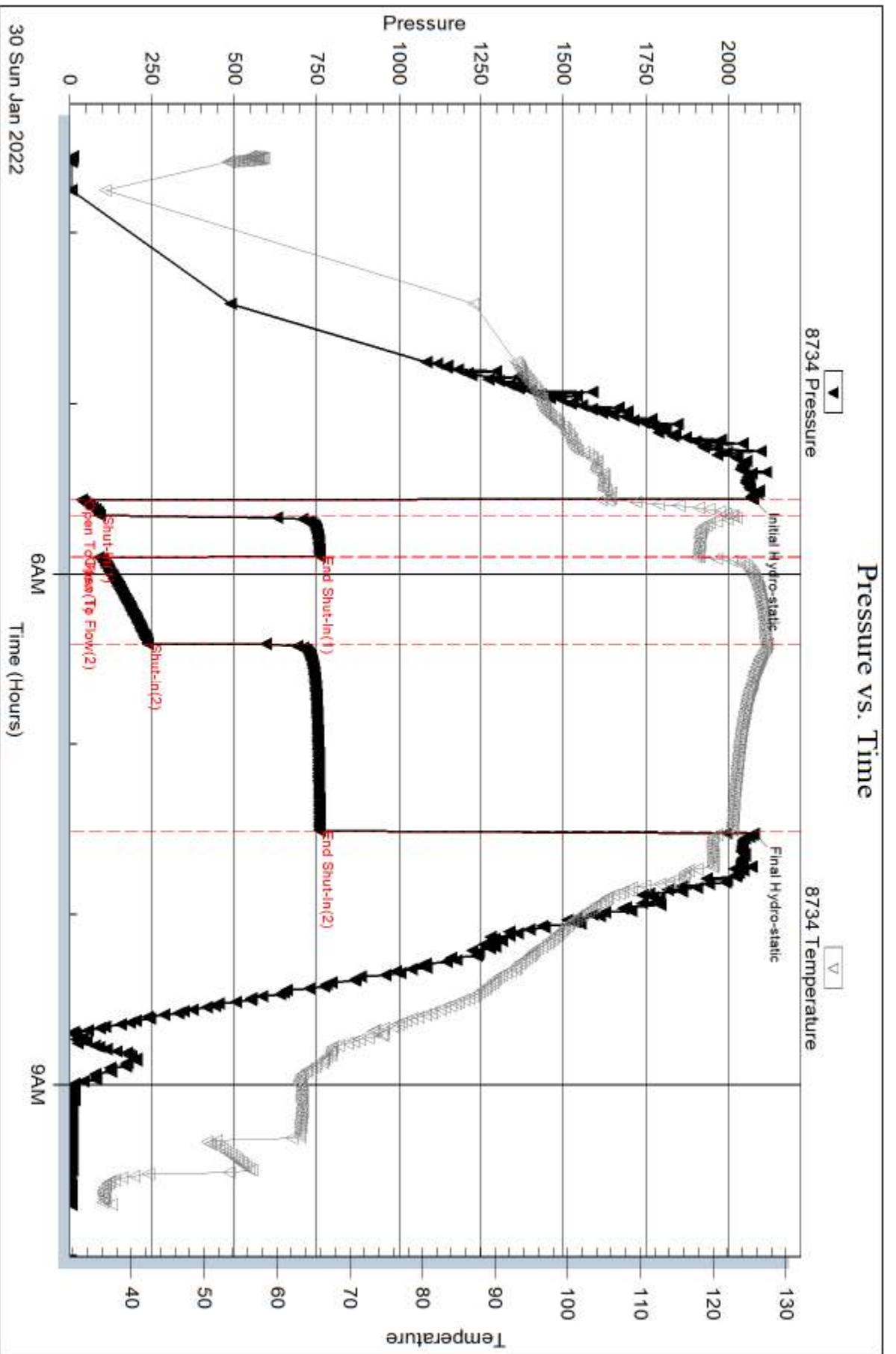
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: RW = .49 @ 51.0 degs = 19,000 PPM



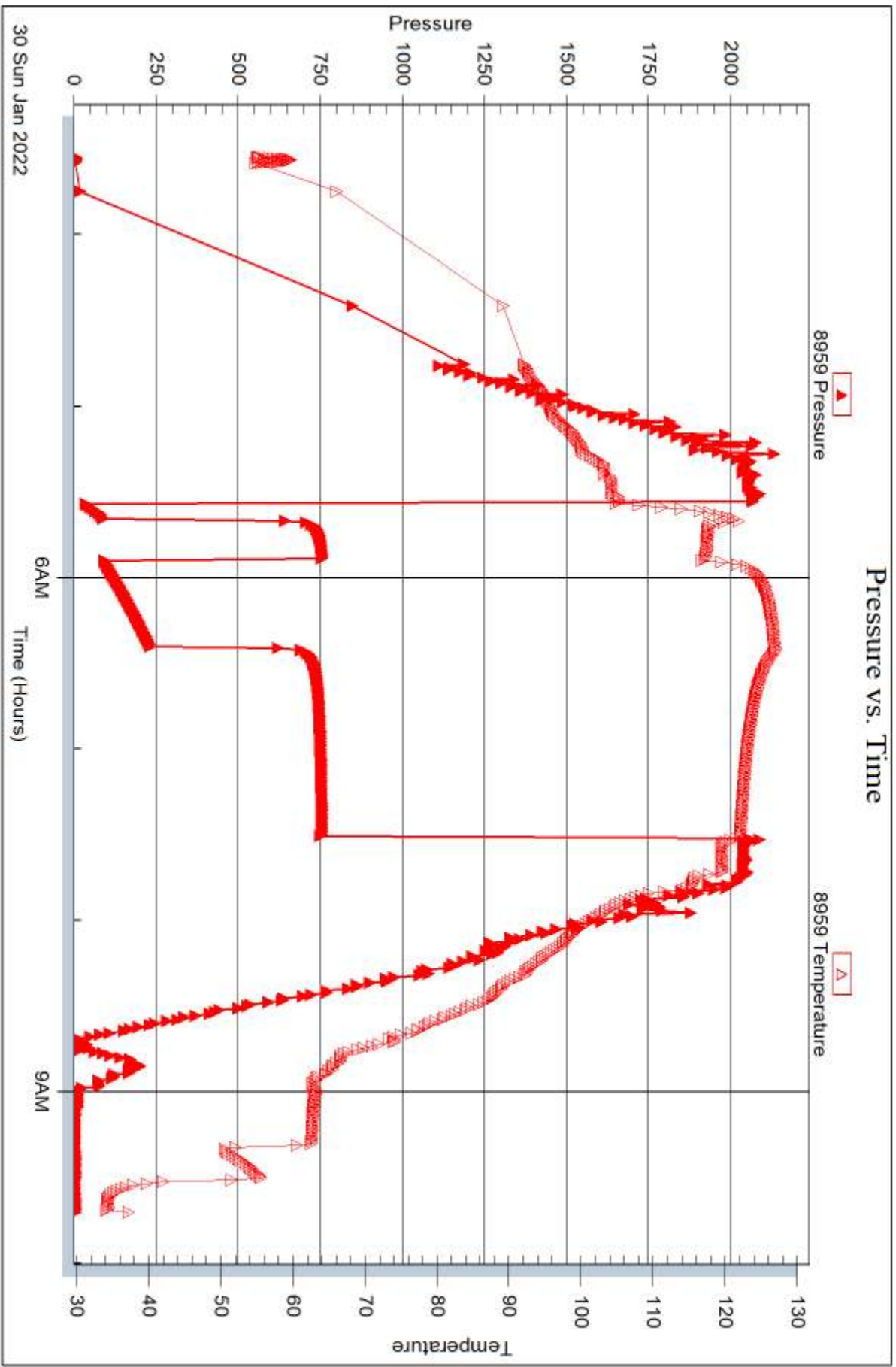
Serial #: 8959

Inside

Citadel Oil LLC

Ramsey #2-30

DST Test Number: 5



Trilobite Testing, Inc

Ref. No: 68034

Printed: 2022.02.03 @ 11:37:49





## DRILL STEM TEST REPORT

Prepared For: **Citadel Oil LLC**

PO Box 1410  
Edmond, OK 73083

ATTN: Vern Schrag

### **Ramsey #2-30**

### **30-17S.-30W Lane,KS**

Start Date: 2022.01.30 @ 18:12:00

End Date: 2022.01.31 @ 00:27:00

Job Ticket #: 68035                      DST #: 6

Trilobite Testing, Inc  
PO Box 362 Hays, KS 67601  
ph: 785-625-4778 fax: 785-625-5620

Printed: 2022.02.03 @ 11:37:16

Citadel Oil LLC  
30-17S.-30W Lane,KS  
Ramsey #2-30  
DST # 6  
Middle Creek  
2022.01.30



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

Citadel Oil LLC

**30-17S.-30W Lane,KS**

PO Box 1410  
Edmond, OK 73083

**Ramsey #2-30**

Job Ticket: 68035

**DST#: 6**

ATTN: Vern Schrag

Test Start: 2022.01.30 @ 18:12:00

## GENERAL INFORMATION:

Formation: **Middle Creek**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 20:03:00

Time Test Ended: 00:27:00

Test Type: Conventional Bottom Hole (Reset)

Tester: Martine Salinas

Unit No: 81

**Interval: 4243.00 ft (KB) To 4254.00 ft (KB) (TVD)**

Reference Elevations: 2904.00 ft (KB)

Total Depth: 4254.00 ft (KB) (TVD)

2896.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 8.00 ft

**Serial #: 8734 Outside**

Press@RunDepth: 89.88 psig @ 4244.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2022.01.30

End Date:

2022.01.31

Last Calib.: 2022.01.31

Start Time: 18:12:01

End Time:

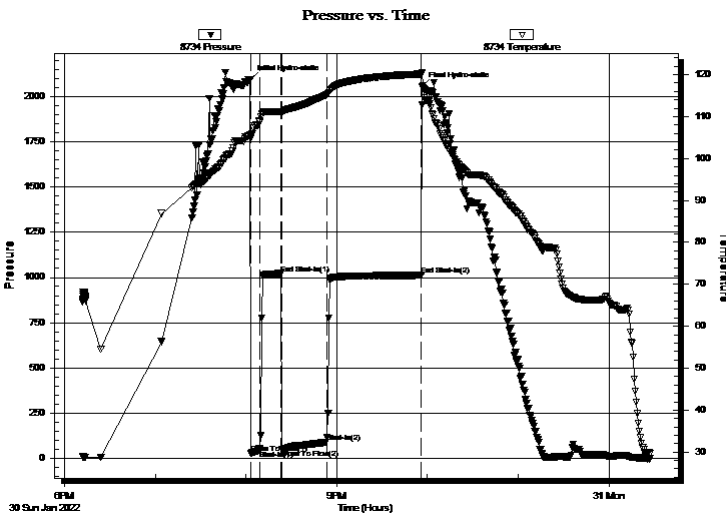
00:27:00

Time On Btm: 2022.01.30 @ 20:02:50

Time Off Btm: 2022.01.30 @ 21:56:30

**TEST COMMENT:** 5-IF-S.blow built to 2"  
15-ISI-No return  
30-FF-S.blow built to B.O.B (11 inches) @ 30 mins  
60-FSI-No return

## PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2092.00	105.75	Initial Hydro-static
1	27.07	104.81	Open To Flow (1)
6	47.65	108.69	Shut-In(1)
21	1021.62	111.17	End Shut-In(1)
21	48.96	111.02	Open To Flow (2)
51	89.88	115.15	Shut-In(2)
114	1012.06	120.14	End Shut-In(2)
114	2053.50	120.53	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
100.00	GMCO 9%G, 30%M, 61%O	0.49
89.00	CGO 10%G, 90%O	1.05

\* Recovery from multiple tests

## Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)



**TRILOBITE  
TESTING, INC.**

## DRILL STEM TEST REPORT

Citadel Oil LLC  
PO Box 1410  
Edmond, OK 73083  
ATTN: Vern Schrag

**30-17S.-30W Lane,KS**  
**Ramsey #2-30**  
Job Ticket: 68035 **DST#: 6**  
Test Start: 2022.01.30 @ 18:12:00

### GENERAL INFORMATION:

Formation: **Middle Creek**  
Deviated: No Whipstock: ft (KB)  
Time Tool Opened: 20:03:00  
Time Test Ended: 00:27:00

Test Type: Conventional Bottom Hole (Reset)  
Tester: Martine Salinas  
Unit No: 81

Interval: **4243.00 ft (KB) To 4254.00 ft (KB) (TVD)**  
Reference Elevations: 2904.00 ft (KB)  
Total Depth: 4254.00 ft (KB) (TVD) 2896.00 ft (CF)  
Hole Diameter: 7.88 inches Hole Condition: Good KB to GR/CF: 8.00 ft

**Serial #: 8959** Inside  
Press@RunDepth: psig @ 4244.00 ft (KB) Capacity: 8000.00 psig  
Start Date: 2022.01.30 End Date: 2022.01.31 Last Calib.: 2022.01.31  
Start Time: 18:12:01 End Time: 00:26:50 Time On Btm:  
Time Off Btm:

TEST COMMENT: 5-IF-S.blow built to 2"  
15-ISI-No return  
30-FF-S.blow built to B.O.B (11 inches) @ 30 mins  
60-FSI-No return



### PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation

### Recovery

Length (ft)	Description	Volume (bbl)
100.00	GMCO 9%G, 30%M, 61%O	0.49
89.00	CGO 10%G, 90%O	1.05

### Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)

\* Recovery from multiple tests



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

**TOOL DIAGRAM**

Citadel Oil LLC

**30-17S.-30W Lane,KS**

PO Box 1410  
Edmond, OK 73083

**Ramsey #2-30**

Job Ticket: 68035

**DST#: 6**

ATTN: Vern Schrag

Test Start: 2022.01.30 @ 18:12:00

## Tool Information

Drill Pipe:	Length: 4124.00 ft	Diameter: 3.80 inches	Volume: 57.85 bbl	Tool Weight: 2500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 2.75 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 122.00 ft	Diameter: 2.25 inches	Volume: 0.60 bbl	Weight to Pull Loose: 70000.00 lb
			<u>Total Volume: 58.45 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	36.00 ft			String Weight: Initial 58000.00 lb
Depth to Top Packer:	4243.00 ft			Final 58000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	11.00 ft			
Tool Length:	44.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
------------------	-------------	------------	----------	------------	----------------

Change Over Sub	1.00			4211.00	
Shut In Tool	5.00			4216.00	
Hydraulic tool	5.00	1113		4221.00	
Jars	5.00	01-07		4226.00	
EM Tool	5.00			4231.00	
Safety Joint	3.00	-001		4234.00	
Packer	5.00			4239.00	33.00 Bottom Of Top Packer
Packer	4.00			4243.00	
Stubb	1.00			4244.00	
Recorder	0.00	8959	Inside	4244.00	
Recorder	0.00	8734	Outside	4244.00	
Perforations	5.00			4249.00	
Bullnose	5.00			4254.00	11.00 Bottom Packers & Anchor

**Total Tool Length: 44.00**



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

Citadel Oil LLC

**30-17S.-30W Lane,KS**

PO Box 1410  
Edmond, OK 73083

**Ramsey #2-30**

Job Ticket: 68035

**DST#: 6**

ATTN: Vern Schrag

Test Start: 2022.01.30 @ 18:12:00

## Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

35.6 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 49.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 6.77 in<sup>3</sup>

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 1400.00 ppm

Filter Cake: 1.00 inches

## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
100.00	GMCO 9%G, 30%M, 61%O	0.492
89.00	CGO 10%G, 90%O	1.048

Total Length: 189.00 ft      Total Volume: 1.540 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

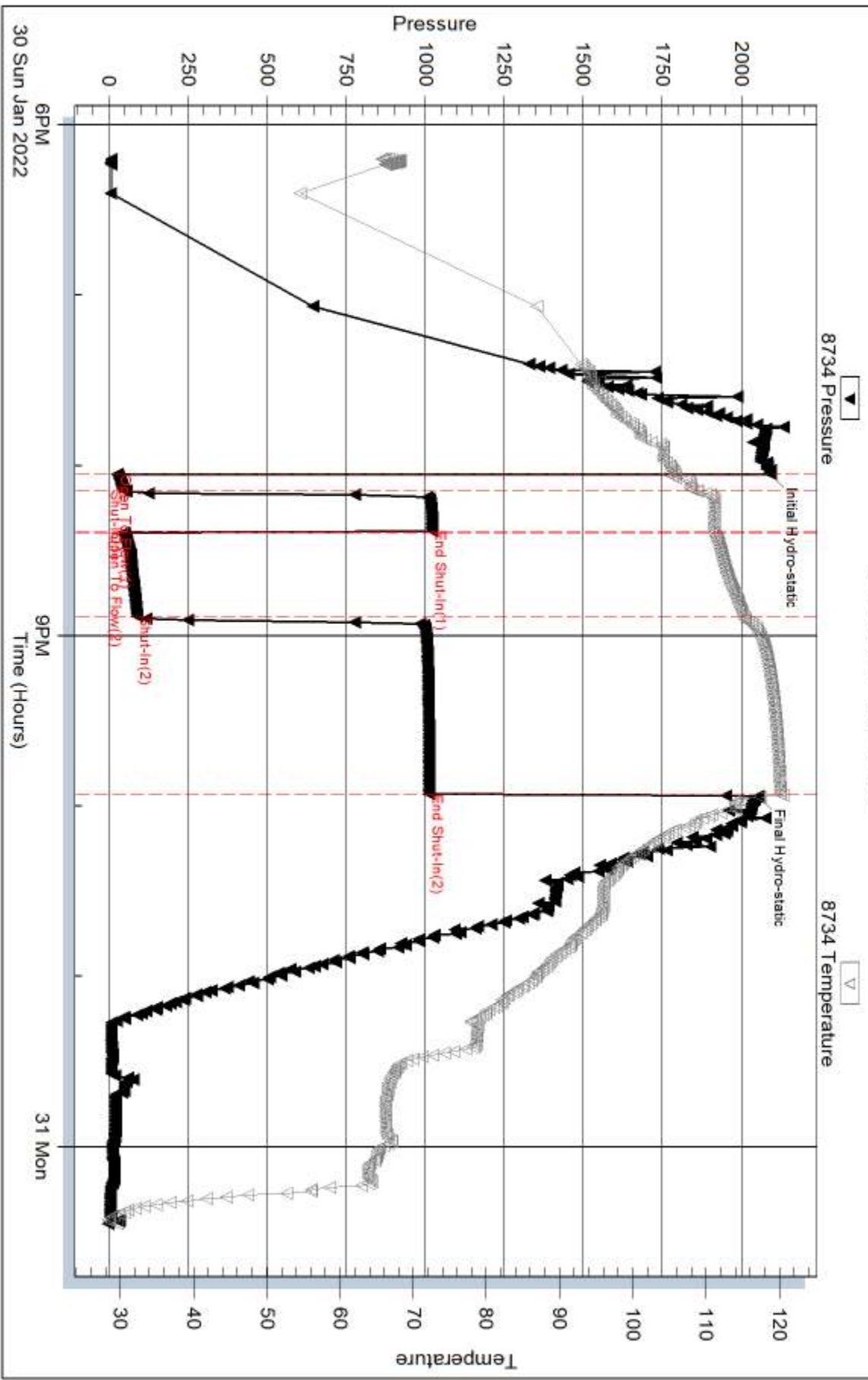
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: Gravity of oil = 32.8 @ 32 degs corrected to 35.6 @ 60 degs

### Pressure vs. Time



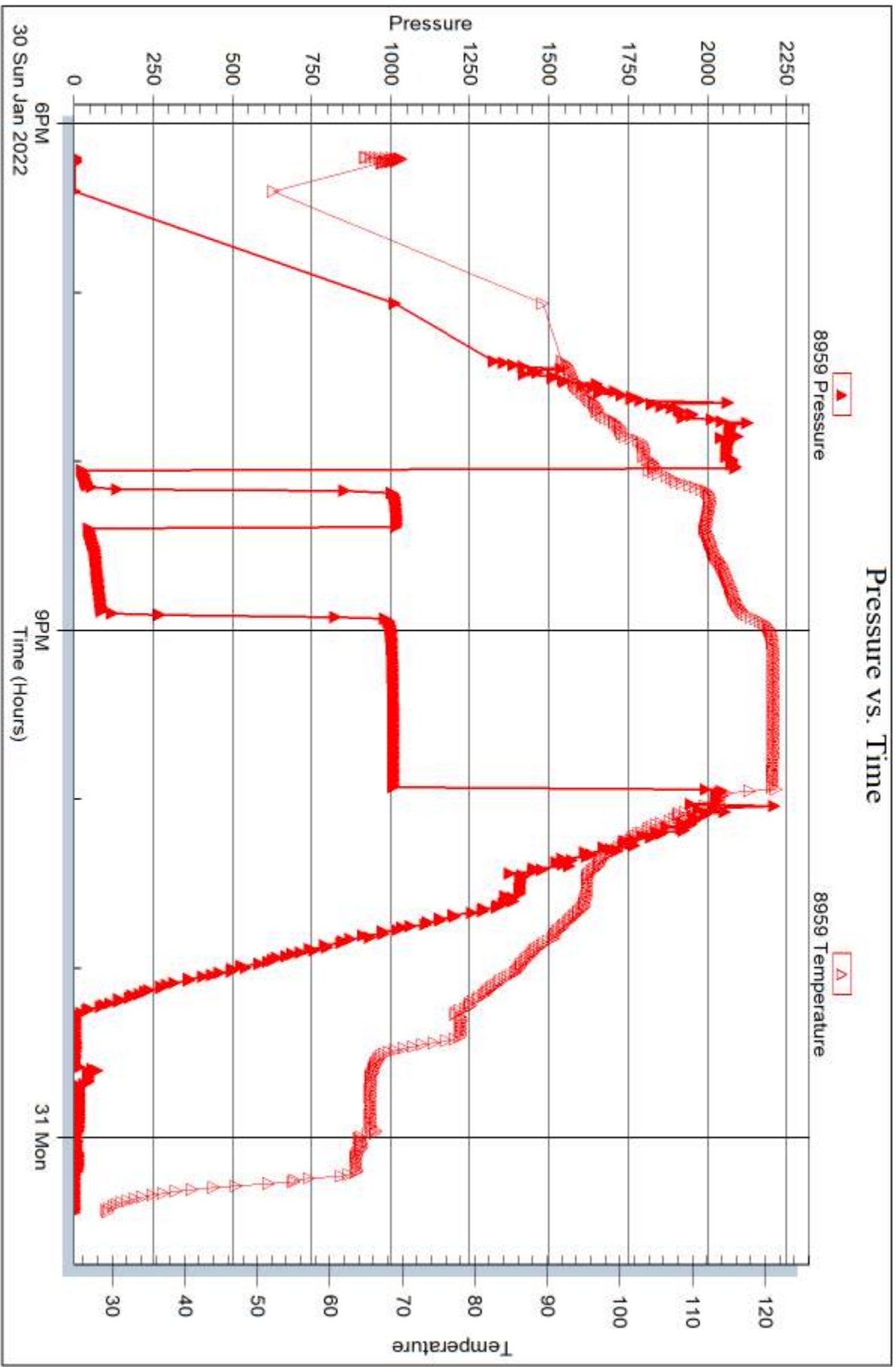
Serial #: 8959

Inside

Citadel Oil LLC

Ransey #2-30

DST Test Number: 6



Triobite Testing, Inc

Ref. No: 68035

Printed: 2022.02.03 @ 11:37:17



## DRILL STEM TEST REPORT

Prepared For: **Citadel Oil LLC**

PO Box 1410  
Edmond, OK 73083

ATTN: Vern Schrag

### **Ramsey #2-30**

### **30-17S.-30W Lane,KS**

Start Date: 2022.01.31 @ 11:55:00

End Date: 2022.01.31 @ 17:19:39

Job Ticket #: 68036                      DST #: 7

Trilobite Testing, Inc  
PO Box 362 Hays, KS 67601  
ph: 785-625-4778 fax: 785-625-5620

Printed: 2022.02.03 @ 11:28:05





**TRILOBITE TESTING, INC**

# DRILL STEM TEST REPORT

Citadel Oil LLC

**30-17S.-30W Lane,KS**

PO Box 1410  
Edmond, OK 73083

**Ramsey #2-30**

Job Ticket: 68036

**DST#: 7**

ATTN: Vern Schrag

Test Start: 2022.01.31 @ 11:55:00

## GENERAL INFORMATION:

Formation: **Pleasanton**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 13:35:30

Time Test Ended: 17:19:39

Test Type: Conventional Bottom Hole (Reset)

Tester: Martine Salinas

Unit No: 81

**Interval: 4288.00 ft (KB) To 4308.00 ft (KB) (TVD)**

Reference Elevations: 2904.00 ft (KB)

Total Depth: 4308.00 ft (KB) (TVD)

2896.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 8.00 ft

**Serial #: 8734 Outside**

Press@RunDepth: 84.67 psig @ 4289.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2022.01.31

End Date:

2022.01.31

Last Calib.: 2022.01.31

Start Time: 11:55:01

End Time:

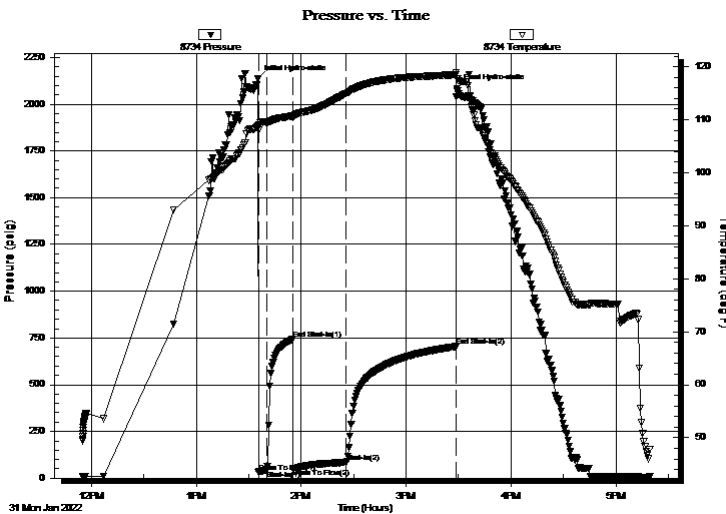
17:19:40

Time On Btm: 2022.01.31 @ 13:35:20

Time Off Btm: 2022.01.31 @ 15:29:10

**TEST COMMENT:** 5-IF-Blow built to 2"  
15-ISI-No return  
30-FF-Blow built to 5 1/2"  
60-FSI-No return

## PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2133.95	108.77	Initial Hydro-static
1	31.80	108.03	Open To Flow (1)
5	44.11	109.52	Shut-In(1)
20	742.44	110.70	End Shut-In(1)
20	50.24	110.41	Open To Flow (2)
51	84.67	114.95	Shut-In(2)
113	703.70	118.50	End Shut-In(2)
114	2083.01	117.82	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
122.00	GHOCM 13%G, 34%O, 53%M	0.60
28.00	CGO 15%G, 85%O	0.39

\* Recovery from multiple tests

## Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)



**TRILOBITE TESTING, INC**

# DRILL STEM TEST REPORT

Citadel Oil LLC

**30-17S.-30W Lane,KS**

PO Box 1410  
Edmond, OK 73083

**Ramsey #2-30**

Job Ticket: 68036

**DST#: 7**

ATTN: Vern Schrag

Test Start: 2022.01.31 @ 11:55:00

## GENERAL INFORMATION:

Formation: **Pleasanton**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 13:35:30

Time Test Ended: 17:19:39

Test Type: Conventional Bottom Hole (Reset)

Tester: Martine Salinas

Unit No: 81

**Interval: 4288.00 ft (KB) To 4308.00 ft (KB) (TVD)**

Reference Elevations: 2904.00 ft (KB)

Total Depth: 4308.00 ft (KB) (TVD)

2896.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 8.00 ft

**Serial #: 8959 Inside**

Press@RunDepth: psig @ 4289.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2022.01.31

End Date:

2022.01.31

Last Calib.:

2022.01.31

Start Time: 11:55:01

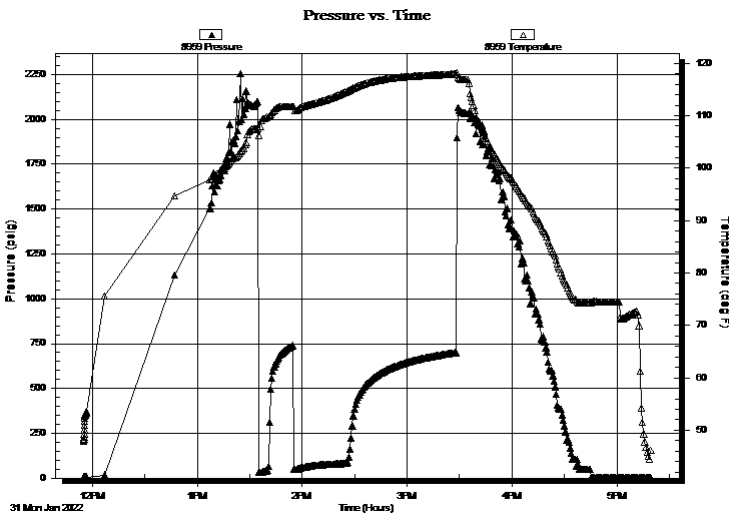
End Time:

17:19:40

Time On Btm:

Time Off Btm:

**TEST COMMENT:** 5-IF-Blow built to 2"  
15-ISI-No return  
30-FF-Blow built to 5 1/2"  
60-FSI-No return



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation

## Recovery

Length (ft)	Description	Volume (bbl)
122.00	GHOCM 13%G, 34%O, 53%M	0.60
28.00	CGO 15%G, 85%O	0.39

## Gas Rates

Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)

\* Recovery from multiple tests



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

**TOOL DIAGRAM**

Citadel Oil LLC

**30-17S.-30W Lane,KS**

PO Box 1410  
Edmond, OK 73083

**Ramsey #2-30**

Job Ticket: 68036

**DST#: 7**

ATTN: Vern Schrag

Test Start: 2022.01.31 @ 11:55:00

## Tool Information

Drill Pipe:	Length: 4156.00 ft	Diameter: 3.80 inches	Volume: 58.30 bbl	Tool Weight:	2500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 2.75 inches	Volume: 0.00 bbl	Weight set on Packer:	25000.00 lb
Drill Collar:	Length: 122.00 ft	Diameter: 2.25 inches	Volume: 0.60 bbl	Weight to Pull Loose:	70000.00 lb
			<u>Total Volume: 58.90 bbl</u>	Tool Chased	0.00 ft
Drill Pipe Above KB:	23.00 ft			String Weight: Initial	60000.00 lb
Depth to Top Packer:	4288.00 ft			Final	60000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	20.00 ft				
Tool Length:	53.00 ft				
Number of Packers:	2	Diameter: 6.75 inches			

Tool Comments:

## Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			4256.00	
Shut In Tool	5.00			4261.00	
Hydraulic tool	5.00	1113		4266.00	
Jars	5.00	01-07		4271.00	
EM Tool	5.00			4276.00	
Safety Joint	3.00	-001		4279.00	
Packer	5.00			4284.00	33.00 Bottom Of Top Packer
Packer	4.00			4288.00	
Stubb	1.00			4289.00	
Recorder	0.00	8959	Inside	4289.00	
Recorder	0.00	8734	Outside	4289.00	
Perforations	14.00			4303.00	
Bullnose	5.00			4308.00	20.00 Bottom Packers & Anchor

**Total Tool Length: 53.00**



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

## FLUID SUMMARY

Citadel Oil LLC

**30-17S.-30W Lane,KS**

PO Box 1410  
Edmond, OK 73083

**Ramsey #2-30**

Job Ticket: 68036

**DST#: 7**

ATTN: Vern Schrag

Test Start: 2022.01.31 @ 11:55:00

### Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

38 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 63.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 9.49 in<sup>3</sup>

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 3700.00 ppm

Filter Cake: 1.00 inches

### Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
122.00	GHOCM 13%G, 34%O, 53%M	0.600
28.00	CGO 15%G, 85%O	0.393

Total Length: 150.00 ft      Total Volume: 0.993 bbl

Num Fluid Samples: 0

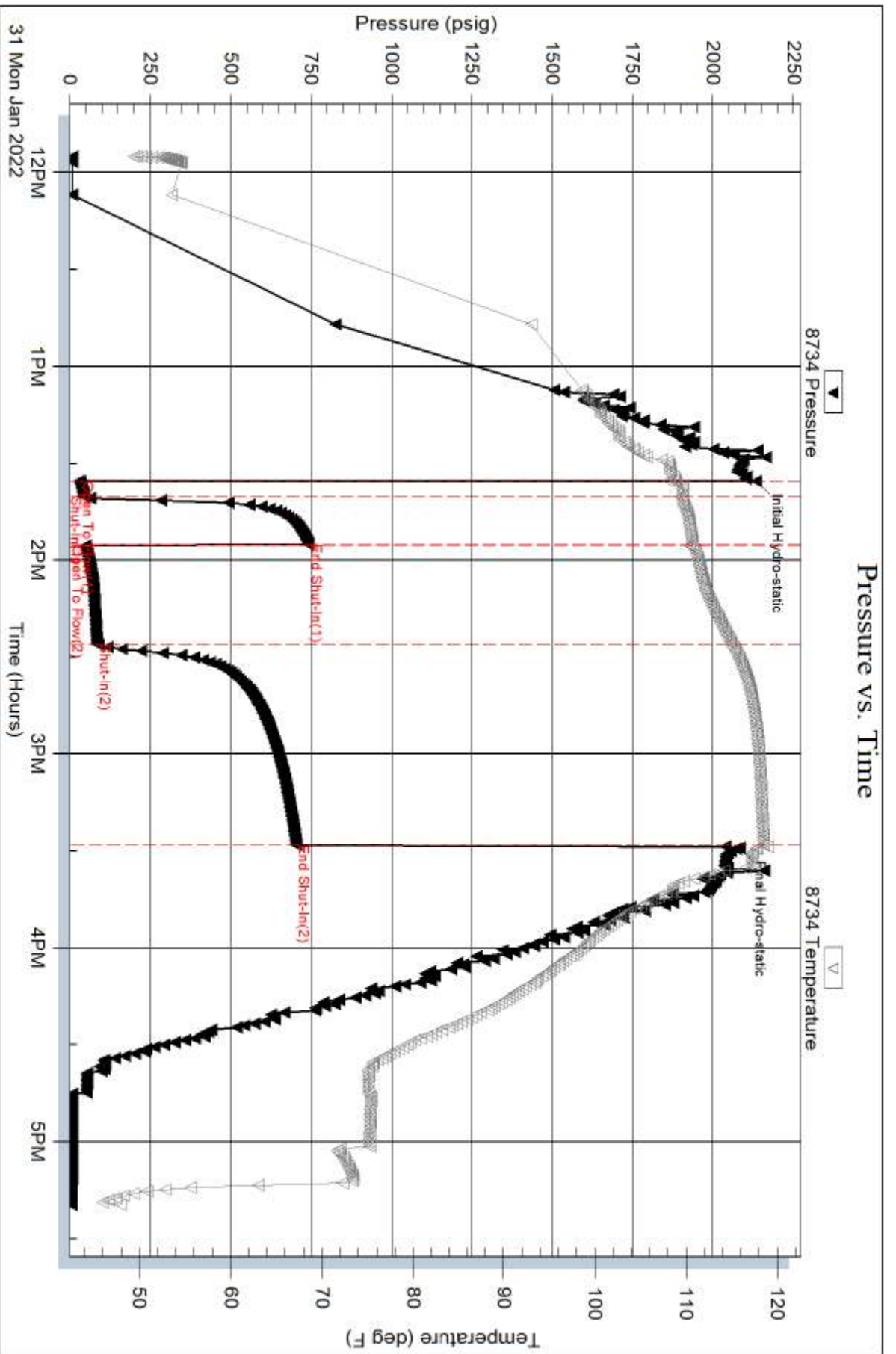
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: Gravity of oil = 37.8 @ 58 degs corrected to 38.0 @ 60 degs



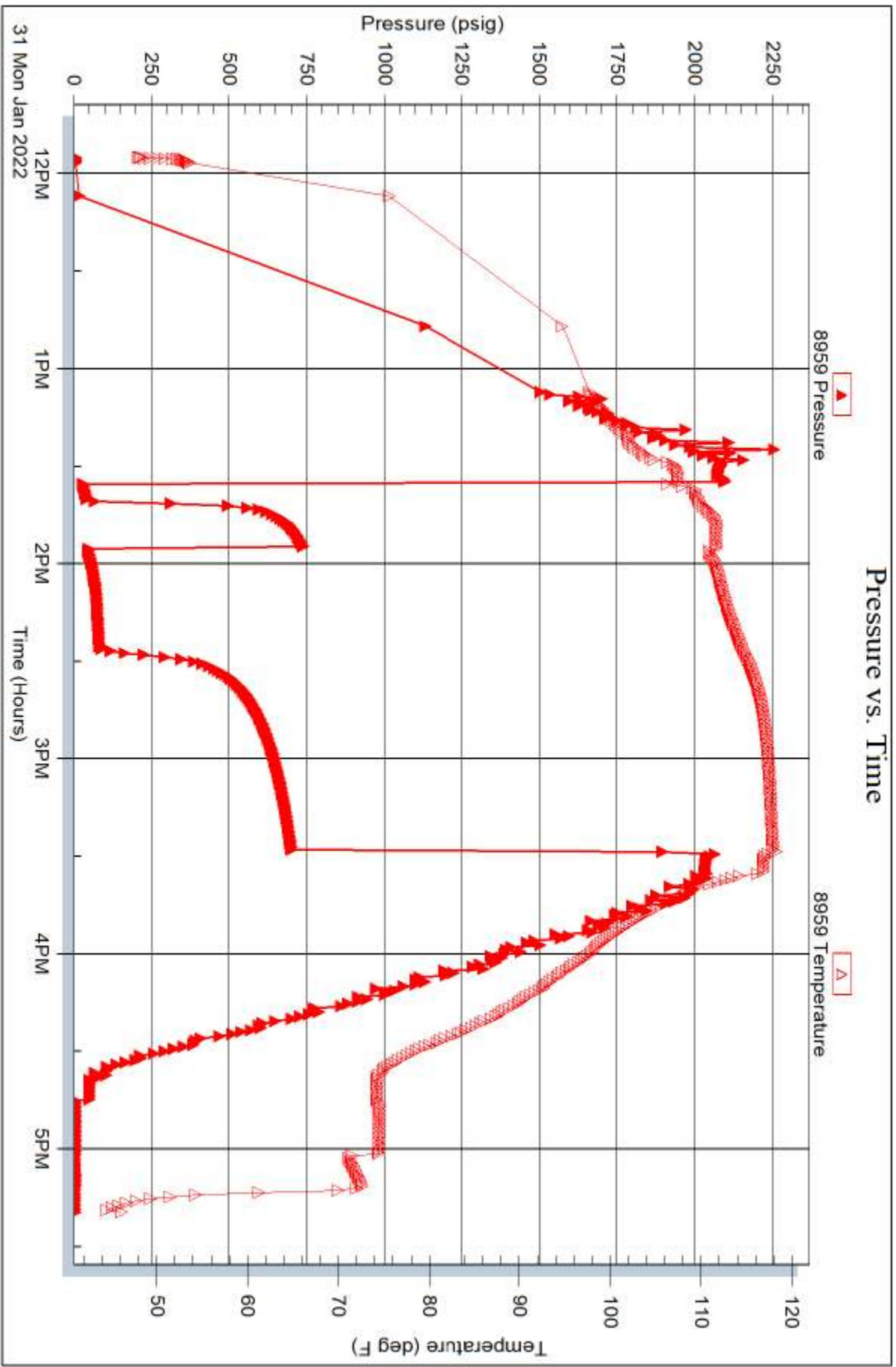
Serial #: 8959

Inside

Citadel Oil LLC

Ransey #2-30

DST Test Number: 7



Trilobite Testing, Inc

Ref. No: 68036

Printed: 2022.02.03 @ 11:29:22



# TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

## Test Ticket

NO. 68030

Well Name & No. Ramsay #2-30 Test No. 1 Date 1-27-22  
 Company Citadel Oil LLC Elevation 2904 KB 2896 GL  
 Address P.O. Box 1410 Edmond, OK 73083  
 Co. Rep / Geo. Vern Schrag Rig Southwind #8  
 Location: Sec. 30 Twp 17S. Rge. 30W. Co. Lane State KS.

Interval Tested 3948-3968 Zone Tested Lansing "B"  
 Anchor Length 20' Drill Pipe Run 3806 Mud Wt. 9.0  
 Top Packer Depth 3943 Drill Collars Run 122 Vls 49  
 Bottom Packer Depth 3948 Wt. Pipe Run \_\_\_\_\_ WL 6.8  
 Total Depth 3968 Chlorides 1400 ppm System LCM 2#

Blow Description IF - blow built to 3"  
ISI - No return

FF - blow built to 3.0.8 (11 inches) @ 30 mins

ESI - Returns blow @ 10 mins built to 1/4" dead @ 44 mins

Rec	Feet of	%gas	%oil	%water	%mud
<u>122</u>	<u>SMOCW</u>	<u>10</u>	<u>85</u>	<u>5</u>	
<u>100</u>	<u>SOMCW</u>	<u>5</u>	<u>70</u>	<u>25</u>	
<u>26</u>	<u>Co</u>	<u>100</u>			

Rec Total 242 BHT 116 Gravity 23 API RW .75 @ 54 °F Chlorides 14,000 ppm

- (A) Initial Hydrostatic 1915
- (B) First Initial Flow 36
- (C) First Final Flow 73
- (D) Initial Shut-In 869
- (E) Second Initial Flow 76
- (F) Second Final Flow 134
- (G) Final Shut-In 873
- (H) Final Hydrostatic 1903

Initial Open 5  
 Initial Shut-In 15  
 Final Flow 30  
 Final Shut-In 60

- Test 1300
- Jars 250
- Safety Joint 75
- Circ Sub \_\_\_\_\_
- Hourly Standby \_\_\_\_\_
- Mileage 41 RT 51.25
- Sampler \_\_\_\_\_
- Straddle \_\_\_\_\_
- Shale Packer \_\_\_\_\_
- Extra Packer \_\_\_\_\_
- Extra Recorder \_\_\_\_\_
- Day Standby \_\_\_\_\_
- Accessibility \_\_\_\_\_
- Sub Total 1676.25

- T-On Location 00:15
- T-Started 02:50
- T-Open 06:20
- T-Pulled 08:10
- T-Out 10:37
- Comments \_\_\_\_\_
- EM Tool 350 NS
- Ruined Shale Packer \_\_\_\_\_
- Ruined Packer \_\_\_\_\_
- Extra Copies \_\_\_\_\_
- Sub Total 0
- Total 1676.25
- MP/DST Disc't \_\_\_\_\_

Approved By \_\_\_\_\_ Our Representative [Signature]

Trilobite Testing Inc. shall not be liable for damaged of any kind of the property or personnel of the one for whom a test is made, or for any loss suffered or sustained, directly or indirectly, through the use of its equipment, or its statements or opinion concerning the results of any test, tools lost or damaged in the hole shall be paid for at cost by the party for whom the test is made.



# TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

## Test Ticket

NO. 68031

Well Name & No. Ramsey #2-30 Test No. 2 Date 1-27-23  
 Company Citadel Oil LLC Elevation 2904 KB 2896 GL  
 Address P.O. Box 1410 Edmond, OK 73083  
 Co. Rep / Geo. Vern Schrag Rig Southwind  
 Location: Sec. 30 Twp 17S. Rge. 30W. Co. Lane State KS

Interval Tested 4007-4020 Zone Tested Lansing "E"  
 Anchor Length 13' Drill Pipe Run 3870 Mud Wt. 9.0  
 Top Packer Depth 4002. Drill Collars Run 122 Vis 48  
 Bottom Packer Depth 4002 (Shale) Wt. Pipe Run — WL 7.2  
 Total Depth 4020 Chlorides 2500 ppm System LCM 2#

Blow Description IF - blow built to 3"  
ISI - No return.  
FF - blow built to P.O.B (11 inches) @ 27 mins (blow increased to 12 1/2")  
ESI - Return blow built to 1"

Rec	Feet of	%gas	%oil	%water	%mud
<u>60</u>	<u>GHMCO</u>	<u>10</u>	<u>50</u>	<u>40</u>	
<u>125</u>	<u>CGO</u>	<u>12</u>	<u>88</u>		
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 185 BHT 114 Gravity 33 API RW — @ — °F Chlorides — ppm

(A) Initial Hydrostatic 1958  Test 1450 T-On Location 19:30  
 (B) First Initial Flow 31  Jars 250 T-Started 20:10  
 (C) First Final Flow 49  Safety Joint 75 T-Open 22:33  
 (D) Initial Shut-In 971  Circ Sub \_\_\_\_\_ T-Pulled ∞:23  
 (E) Second Initial Flow 50  Hourly Standby \_\_\_\_\_ T-Out 03:15  
 (F) Second Final Flow 96  Mileage 51.25 Comments \_\_\_\_\_  
 (G) Final Shut-In 973  Sampler \_\_\_\_\_  
 (H) Final Hydrostatic 1954  Straddle \_\_\_\_\_  EM Tool 350  
 Shale Packer 250  Ruined Shale Packer \_\_\_\_\_  
 Extra Packer \_\_\_\_\_  Ruined Packer \_\_\_\_\_  
 Extra Recorder \_\_\_\_\_  Extra Copies \_\_\_\_\_  
 Day Standby \_\_\_\_\_ Sub Total 350  
 Accessibility \_\_\_\_\_ Total 2426.25  
 Sub Total 2076.25 MP/DST Disc't \_\_\_\_\_

Approved By \_\_\_\_\_ Our Representative [Signature]  
 Trilobite Testing Inc. shall not be liable for damaged of any kind of the property or personnel of the one for whom a test is made, or for any loss suffered or sustained directly or indirectly, through the use of its equipment, or its statements or opinion concerning the results of any test, tools lost or damaged in the hole shall be paid for at cost by the party for whom the test is made.





# TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

## Test Ticket

NO. 68032

Well Name & No. Ramsay #2-30 Test No. 3 Date 1-28-22  
 Company Citadel Oil LLC Elevation 2904 KB 2896 GL  
 Address P.O. Box 1410 Edmund, OK 73083  
 Co. Rep / Geo. Vern Schrag Rig Southwind #8  
 Location: Sec. 30 Twp 17S. Rge. 30W. Co. Lane. State K3

Interval Tested 4100 - 4120 Zone Tested Cansing "H"  
 Anchor Length 20' Drill Pipe Run 3965 Mud Wt. 9.1  
 Top Packer Depth 4095 Drill Collars Run 122. Vis 52  
 Bottom Packer Depth 4100 Wt. Pipe Run — WL 7.2  
 Total Depth 4120 Chlorides 3000 ppm System LCM 2H  
 Blow Description IF - S. blow built to 1/2"

ISI - No return.

FF - No blow

FSI - No return.

Rec	Feet of	%gas	%oil	%water	%mud
<u>5</u>	<u>OSM</u>	<u>4</u>		<u>96</u>	
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 5 BHT 109 Gravity — API RW — @ — °F Chlorides — ppm

(A) Initial Hydrostatic <u>2065</u>	<input checked="" type="checkbox"/> Test <u>1450</u>	T-On Location <u>18:20</u>
(B) First Initial Flow <u>27</u>	<input checked="" type="checkbox"/> Jars <u>250</u>	T-Started <u>18:30</u>
(C) First Final Flow <u>28</u>	<input checked="" type="checkbox"/> Safety Joint <u>75</u>	T-Open <u>20:43</u>
(D) Initial Shut-In <u>963</u>	<input type="checkbox"/> Circ Sub	T-Pulled <u>22:33</u>
(E) Second Initial Flow <u>29</u>	<input type="checkbox"/> Hourly Standby	T-Out <u>00:58</u>
(F) Second Final Flow <u>33</u>	<input checked="" type="checkbox"/> Mileage <u>41RT</u> 51.25	Comments
(G) Final Shut-In <u>993</u>	<input type="checkbox"/> Sampler	
(H) Final Hydrostatic <u>2015</u>	<input type="checkbox"/> Straddle	<input checked="" type="checkbox"/> EM Tool <u>350 NS</u>
Initial Open <u>5</u>	<input type="checkbox"/> Shale Packer	<input type="checkbox"/> Ruined Shale Packer
Initial Shut-In <u>15</u>	<input type="checkbox"/> Extra Packer	<input type="checkbox"/> Ruined Packer
Final Flow <u>30</u>	<input type="checkbox"/> Extra Recorder	<input type="checkbox"/> Extra Copies
Final Shut-In <u>60</u>	<input type="checkbox"/> Day Standby	Sub Total <u>0</u>
	<input type="checkbox"/> Accessibility	Total <u>1826.25</u>
	Sub Total <u>1826.25</u>	MP/DST Disc't

Approved By \_\_\_\_\_ Our Representative [Signature]

Trilobite Testing Inc. shall not be liable for damaged of any kind of the property or personnel of the one for whom a test is made, or for any loss suffered or sustained, directly or indirectly, through the use of its equipment, or its statements or opinion concerning the results of any test, tools lost or damaged in the hole shall be paid for at cost by the party for whom the test is made.



# TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

## Test Ticket

NO. **68033**

Well Name & No. Ramsey #2-30 Test No. 4 Date 1-28-22  
 Company Citadel Oil LLC Elevation 2904 KB 2896 GL  
 Address P.O. Box 1410 Edmund, OK 73083  
 Co. Rep / Geo. Vern Schrag Rig Southwind #8  
 Location: Sec. 30 Twp 17S. Rge. 30W. Co. Lane State KS.

Interval Tested 4145 - 4170 Zone Tested I - zone.  
 Anchor Length 25' Drill Pipe Run 3997 Mud Wt. 9.1  
 Top Packer Depth 4140 Drill Collars Run 122 Vls 52  
 Bottom Packer Depth 4145 Wt. Pipe Run — WL 7.2  
 Total Depth 4170 Chlorides 3000 ppm System LCM 2#  
 Blow Description IF - S. blow built to 3/4"  
ISI - No return  
FF - S. blow built to 3/4"  
FSI - No return.

Rec	Feet of	%gas	%oil	%water	%mud
<u>10</u>	<u>OSM</u>	<u>3</u>		<u>97</u>	
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 10 BHT \_\_\_\_\_ Gravity \_\_\_\_\_ API RW \_\_\_\_\_ @ \_\_\_\_\_ F Chlorides \_\_\_\_\_ ppm

(A) Initial Hydrostatic <u>2078</u>	<input checked="" type="checkbox"/> Test <u>1450</u>	T-On Location <u>10:30</u>
(B) First Initial Flow <u>29</u>	<input checked="" type="checkbox"/> Jars <u>250</u>	T-Started <u>10:50</u>
(C) First Final Flow <u>31</u>	<input checked="" type="checkbox"/> Safety Joint <u>75</u>	T-Open <u>12:28</u>
(D) Initial Shut-In <u>769</u>	<input type="checkbox"/> Circ Sub _____	T-Pulled <u>14:18</u>
(E) Second Initial Flow <u>33</u>	<input type="checkbox"/> Hourly Standby _____	T-Out <u>16:27</u>
(F) Second Final Flow <u>43</u>	<input checked="" type="checkbox"/> Mileage <u>41RT</u> 51.25	Comments _____
(G) Final Shut-In <u>717</u>	<input type="checkbox"/> Sampler _____	
(H) Final Hydrostatic <u>2013</u>	<input type="checkbox"/> Straddle _____	<input checked="" type="checkbox"/> EM Tool <u>350 NS</u>
Initial Open <u>5</u>	<input type="checkbox"/> Shale Packer _____	<input type="checkbox"/> Ruined Shale Packer _____
Initial Shut-In <u>15</u>	<input type="checkbox"/> Extra Packer _____	<input type="checkbox"/> Ruined Packer _____
Final Flow <u>30</u>	<input type="checkbox"/> Extra Recorder _____	<input type="checkbox"/> Extra Copies _____
Final Shut-In <u>60</u>	<input type="checkbox"/> Day Standby _____	Sub Total <u>0</u>
	<input type="checkbox"/> Accessibility _____	Total <u>1826.25</u>
	Sub Total <u>1826.25</u>	MP/DST Disc't _____

Approved By \_\_\_\_\_ Our Representative [Signature]  
 Trilobite Testing Inc. shall not be liable for damaged of any kind of the property or personnel of the one for whom a test is made, or for any loss suffered or sustained, directly or indirectly, through the use of its equipment, or its statements or opinion concerning the results of any test, tools lost or damaged in the hole shall be paid for at cost by the party for whom the test is made.



# TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

## Test Ticket

NO. 68034

Well Name & No. Bamsey #2-30 Test No. 5 Date 1-30-22  
 Company Citadel Oil LLC Elevation 2904 KB 2896 GL  
 Address P.O. Box 1410 Edmond, OK 73083  
 Co. Rep / Geo. Vern Schrag Rig Southwind #8  
 Location: Sec. 30 Twp 17S Rge. 30W Co. Lane State KS

Interval Tested 4198-4209 Zone Tested LKC "K"  
 Anchor Length 11' Drill Pipe Run 4061 Mud Wt. 9.2  
 Top Packer Depth 4193 Drill Collars Run 4112 Vis 53  
 Bottom Packer Depth 4198 Wt. Pipe Run — WL 8.0  
 Total Depth 4209 Chlorides 3300 ppm System LCM 2#  
 Blow Description IF - Blow guilt to 7"  
ISI - No return.  
FF - B.O.B (11 inches) @ 12 min (blow increased to 29")  
FST - No return.

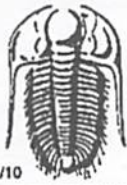
Rec	Feet of	%gas	%oil	%water	%mud
<u>330</u>	<u>Feet of MSW</u>		<u>98</u>	<u>2</u>	
<u>120</u>	<u>Feet of MCW to 1' scum</u>		<u>75</u>	<u>25</u>	

Rec Total 450 BHT 122° Gravity — API RW .49 @ 51 °F Chlorides 19,000 ppm

(A) Initial Hydrostatic <u>2076</u>	<input checked="" type="checkbox"/> Test <u>1450</u>	T-On Location <u>03:00</u>
(B) First Initial Flow <u>37</u>	<input checked="" type="checkbox"/> Jars <u>250</u>	T-Started <u>03:33</u>
(C) First Final Flow <u>93</u>	<input checked="" type="checkbox"/> Safety Joint <u>75</u>	T-Open <u>05:34</u>
(D) Initial Shut-In <u>759</u>	<input type="checkbox"/> Circ Sub	T-Pulled <u>07:25</u>
(E) Second Initial Flow <u>88</u>	<input type="checkbox"/> Hourly Standby	T-Out <u>09:42</u>
(F) Second Final Flow <u>838</u>	<input checked="" type="checkbox"/> Mileage <u>41RT</u> 51.25	Comments
(G) Final Shut-In <u>758</u>	<input type="checkbox"/> Sampler	
(H) Final Hydrostatic <u>2078</u>	<input type="checkbox"/> Straddle	<input checked="" type="checkbox"/> EM Tool <u>350?</u>
Initial Open <u>5</u>	<input type="checkbox"/> Shale Packer	<input type="checkbox"/> Ruined Shale Packer
Initial Shut-In <u>15</u>	<input type="checkbox"/> Extra Packer	<input type="checkbox"/> Ruined Packer
Final Flow <u>36</u>	<input type="checkbox"/> Extra Recorder	<input type="checkbox"/> Extra Copies
Final Shut-In <u>60</u>	<input type="checkbox"/> Day Standby	Sub Total <u>350</u>
	<input type="checkbox"/> Accessibility	Total <u>2176.25</u>
	Sub Total <u>1826.50</u>	MP/DST Disc't

Approved By \_\_\_\_\_ Our Representative Matt Johnson

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# TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

## Test Ticket

NO. 68035

Well Name & No. Ramsay #2-30 Test No. 6 Date 1-30-22  
 Company Citadel Oil LLC Elevation 2904 KB 2396 GL  
 Address P.O. Box 1410 Edmond, OK 73083  
 Co. Rep / Geo. Vern Schrag Rig Southwind #8  
 Location: Sec. 30 Twp 7S. Rge. 30W. Co. Lane. State KS.

Interval Tested 4243 - 4254 Zone Tested Middle Creek  
 Anchor Length 11' Drill Pipe Run 4124 Mud Wt. 9.0  
 Top Packer Depth 4238 Drill Collars Run 122 Vls 50  
 Bottom Packer Depth 4243 Wt. Pipe Run — WL 8.8  
 Total Depth 4254 Chlorides 3500 ppm System LCM 24  
 Blow Description IF - S. blow built to 2"

ISI - No return.

FF - S. blow built to B.O.B (11 inches) @ 30 mins

FSE - No return.

Rec	Feet of	%gas	%oil	%water	%mud
<u>100</u>	<u>GMCO</u>	<u>9</u>	<u>61</u>	<u>30</u>	
<u>80</u>	<u>CGO</u>	<u>10</u>	<u>90</u>		
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 180 BHT 121 Gravity 35.6 API RW — @ — °F Chlorides — ppm

(A) Initial Hydrostatic 2092  
 (B) First Initial Flow 27  
 (C) First Final Flow 48  
 (D) Initial Shut-In 1022  
 (E) Second Initial Flow 49  
 (F) Second Final Flow 90  
 (G) Final Shut-In 1012  
 (H) Final Hydrostatic 2054

Test 1450  
 Jars 250  
 Safety Joint 75  
 Circ Sub  
 Hourly Standby  
 Mileage 41RT 51.25  
 Sampler  
 Straddle  
 Shale Packer  
 Extra Packer  
 Extra Recorder  
 Day Standby  
 Accessibility  
 Sub Total 1826.25

T-On Location 18:10  
 T-Started 18:12  
 T-Open 20:04  
 T-Pulled 21:54  
 T-Out 06:28  
 Comments  
 EM Tool 350  
 Ruined Shale Packer  
 Ruined Packer  
 Extra Copies  
 Sub Total 350  
 Total 2176.25  
 MP/DST Disc't

Initial Open 5  
 Initial Shut-In 15  
 Final Flow 30  
 Final Shut-In 60

Approved By \_\_\_\_\_ Our Representative [Signature]  
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# TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

## Test Ticket

NO. 68036

Well Name & No. Ramsey #2-30 Test No. 7 Date 1-31-22  
 Company Citadel Oil LLC Elevation 2904 KB 2896 GL  
 Address P.O. Box 1410 Edmond, OK 73033  
 Co. Rep / Geo. Vern Schrag Rig Southwind #8  
 Location: Sec. 30 Twp 17S. Rge. 30W. Co. Lane State KS.

Interval Tested 4288 - 4308 Zone Tested Pleasanton  
 Anchor Length 20' Drill Pipe Run 4156 Mud Wt. 9.2  
 Top Packer Depth 4283 Drill Collars Run 122 Vls 63  
 Bottom Packer Depth 4288 Wt. Pipe Run — WL 9.5  
 Total Depth 4308 Chlorides 3700 ppm System LCM 2#  
 Blow Description JF - blow built to 2"  
TSI - No return  
FF - blow built to 5 1/2"  
FST -

Rec	Feet of	%gas	%oil	%water	%mud
<u>122</u>	<u>G 40 CM</u>	<u>13</u>	<u>34</u>	<u>53</u>	
<u>23</u>	<u>C 60</u>	<u>15</u>	<u>85</u>		
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 150 BHT 118° Gravity 38.0 API RW — @ — °F Chlorides — ppm

(A) Initial Hydrostatic <u>2134</u>	<input checked="" type="checkbox"/> Test <u>1450</u>	T-On Location <u>11:45</u>
(B) First Initial Flow <u>32</u>	<input checked="" type="checkbox"/> Jars <u>250</u>	T-Started <u>11:55</u>
(C) First Final Flow <u>44</u>	<input checked="" type="checkbox"/> Safety Joint <u>75</u>	T-Open <u>13:35</u>
(D) Initial Shut-In <u>742</u>	<input type="checkbox"/> Circ Sub	T-Pulled <u>15:25</u>
(E) Second Initial Flow <u>50</u>	<input type="checkbox"/> Hourly Standby	T-Out <u>17:20</u>
(F) Second Final Flow <u>85</u>	<input checked="" type="checkbox"/> Mileage <u>41 RT x 2</u> 102.50	Comments <u>Tools loaded @</u>
(G) Final Shut-In <u>704</u>	<input type="checkbox"/> Sampler	<u>17:45 2-1-22</u>
(H) Final Hydrostatic <u>2083</u>	<input type="checkbox"/> Straddle	<input checked="" type="checkbox"/> EM Tool <u>350</u>
Initial Open <u>5</u>	<input type="checkbox"/> Shale Packer	<input type="checkbox"/> Ruined Shale Packer
Initial Shut-In <u>15</u>	<input type="checkbox"/> Extra Packer	<input type="checkbox"/> Ruined Packer
Final Flow <u>30</u>	<input type="checkbox"/> Extra Recorder	<input type="checkbox"/> Extra Copies
Final Shut-In	<input checked="" type="checkbox"/> Day Standby <u>1d 30 min</u>	Sub Total <u>350</u>
	<input type="checkbox"/> Accessibility	Total <u>2227.50</u>
	Sub Total <u>1877.50</u>	MP/DST Disc't

Approved By \_\_\_\_\_ Our Representative Vern Schrag  
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