



Confidentiality Requested:

Yes  No

KANSAS CORPORATION COMMISSION 1216405  
OIL & GAS CONSERVATION DIVISION

Form ACO-1  
August 2013

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       SIOW
- Gas       D&A       ENHR       SIGW
- OG       GSW       Temp. Abd.
- 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 ENHR       Conv. to SWD
- Plug Back       Conv. to GSW       Conv. to Producer
- Commingled      Permit #: \_\_\_\_\_
- Dual Completion      Permit #: \_\_\_\_\_
- SWD      Permit #: \_\_\_\_\_
- ENHR      Permit #: \_\_\_\_\_
- GSW      Permit #: \_\_\_\_\_

Spud Date or Recompletion Date	Date Reached TD	Completion Date or Recompletion Date
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API No. 15 - \_\_\_\_\_

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
- Geologist Report Received
- UIC Distribution
- ALT  I  II  III Approved by: \_\_\_\_\_ Date: \_\_\_\_\_

1216405

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 <i>(Attach Additional Sheets)</i>	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Log	Formation (Top), Depth and Datum	<input type="checkbox"/> Sample
Samples Sent to Geological Survey	<input type="checkbox"/> Yes <input type="checkbox"/> No	Name	Top	Datum
Cores Taken	<input type="checkbox"/> Yes <input type="checkbox"/> No			
Electric Log Run	<input type="checkbox"/> Yes <input type="checkbox"/> No			
List All E. Logs Run:				

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				

Did you perform a hydraulic fracturing treatment on this well?  Yes  No *(If No, skip questions 2 and 3)*

Does the volume of the total base fluid of the hydraulic fracturing treatment exceed 350,000 gallons?  Yes  No *(If No, skip question 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)*

Shots Per Foot	PERFORATION RECORD - Bridge Plugs Set/Type Specify Footage of Each Interval Perforated	Acid, Fracture, Shot, Cement Squeeze Record <i>(Amount and Kind of Material Used)</i>	Depth

TUBING RECORD:      Size: \_\_\_\_\_ Set At: \_\_\_\_\_ Packer At: \_\_\_\_\_ Liner Run:  Yes  No

Date of First, Resumed Production, SWD or ENHR. \_\_\_\_\_ Producing Method:  
 Flowing    Pumping    Gas Lift    Other *(Explain)* \_\_\_\_\_

Estimated Production Per 24 Hours	Oil Bbls.	Gas Mcf	Water Bbls.	Gas-Oil Ratio	Gravity

<b>DISPOSITION OF GAS:</b> <input type="checkbox"/> Vented <input type="checkbox"/> Sold <input type="checkbox"/> Used on Lease <i>(If vented, Submit ACO-18.)</i>	<b>METHOD OF COMPLETION:</b> <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> <input type="checkbox"/> Other <i>(Specify)</i> _____	<b>PRODUCTION INTERVAL:</b> _____ _____
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Global Cementing LLC

18048 I-70 Road  
Russell, KS 67665

# Invoice

Date	Invoice #
2/20/2014	1212

Bill To
STRATAKAN EXPLORATION 204 W MILL ST PLAINVILLE,KS 67663

P.O. No.	Terms	Project
KRAUS#3-14	Net 30	

Quantity	Description	Rate	Amount
123	COMMON	15.50	1,906.50
82	POZ	8.50	697.00
7	GEL	23.50	164.50
50	FLO-SEAL	2.00	100.00
212	HANDLING	2.10	445.20
	BULK MILEAGE	678.40	678.40
1	ROTARY PLUG	1,200.00	1,200.00
80	PUMP TRUCK MILEAGE	6.50	520.00
80	PICKUP	2.50	200.00
1	8 5/8 WOOD PLUG	57.50	57.50
	DEDUCT 20% FROM TOTAL IF PAID WITHIN 30 DAYS OF INVOICE GRAHAM CO	7.40%	0.00

Cement for plugging

Thank you for your business.

**Total**

\$5,969.10

4775.28

Phone #	Fax #	E-mail
785-324-2658	785-445-3526	

# SCHIPPER'S OIL FIELD SERVICES, L.L.C.

1212

REMIT TO 18048 170RD  
RUSSELL, KS 67665

SERVICE POINT: Russell, KS

DATE <u>2-20-14</u>	SEC. <u>13</u>	TWP. <u>8</u>	RANGE <u>22</u>	CALLED OUT	ON LOCATION	JOB START <u>4:30pm</u>	JOB FINISH <u>5:30pm</u>
LEASE <u>Kraus</u>	WELL #. <u>3-14</u>	LOCATION			COUNTY <u>Graham</u>	STATE <u>KS</u>	
OLD OR <input checked="" type="radio"/> NEW (CIRCLE ONE)							

CONTRACTOR Skytop

TYPE OF JOB Rotary Plug

HOLE SIZE 7 7/8 T.D. 3634

CASING SIZE DEPTH

TUBING SIZE DEPTH

DRILL PIPE DEPTH

TOOL DEPTH

PRES. MAX MINIMUM

MEAS. LINE SHOE JOINT

CEMENT LEFT IN CSG.

PERFS

DISPLACEMENT

OWNER

CEMENT AMOUNT ORDERED 205sx 60/40 4% gel

14" F10

EQUIPMENT

PUMP TRUCK CEMENTER Heath

# P1 HELPER Cody

BULK TRUCK DRIVER Eric - Mark

# B4

BULK TRUCK DRIVER

#

COMMON @

POZMIX @

GEL @

CHLORIDE @

ASC @

HANDLING @

MILEAGE @

TOTAL

REMARKS: al

1st Plug @ 1675' = 25sx

2nd Plug @ 825' = 100sx

3rd Plug @ 300' = 40sx

4th Plug @ 40' = 10sx

Plug RH = 30sx

SERVICE

DEPTH OF JOB

PUMP TRUCK CHARGE

EXTRA FOOTAGE @

MILEAGE @

MANIFOLD @

TOTAL

CHARGE TO: Stratakan Exploration

STREET

CITY STATE ZIP

Schippers Oil Field Services, L.L.C.,  
You are hereby requested to rent cementing equipment and furnish cementer and helper(s) to assist owner or contractor to do work as is listed. The above work was done to satisfaction and supervision of owner agent or contractor. I have read and understand the "GENERAL TERMS AND CONDITIONS" listed on the reverse side.

PRINTED NAME Thomas J Engel

SIGNATURE Thomas J Engel

PLUG & FLOAT EQUIPMENT

8 5/8 Rubber Plug @

TOTAL

SALES TAX (If Any)

TOTAL CHARGES

DISCOUNT IF PAID IN 30 DAYS

Thank You.

Global Cementing LLC dba SOS LLC

18048 I-70 Road  
Russell, KS 67665

# Invoice

Date	Invoice #
2/12/2014	1205

<b>Bill To</b>
STRATAKAN EXPLORATION 204 W MILL ST PLAINVILLE,KS 67663

P.O. No.	Terms	Project
KRAUS#3-14	Net 30	

Quantity	Description	Rate	Amount
175	COMMON	15.50	2,712.50
6	CALCIUM	53.00	318.00
4	GEL	23.50	94.00
185	HANDLING	2.10	388.50
	BULK MILEAGE	592.00	592.00
1	TRI-PLEX PUMP CHARGE FOR SURFACE	1,050.00	1,050.00
80	PUMP TRUCK MILEAGE	6.50	520.00
80	PICKUP	2.50	200.00
	DEDUCT 20% FROM TOTAL IF PAID WITHIN 30 DAYS OF INVOICE GRAHAM CO	7.40%	0.00

Surface cement job

Thank you for your business.

Phone #	Fax #	E-mail
785-324-2658	785-445-3526	

**Total**

~~\$5,875.00~~  
4700.00

# SCHIPPER'S OIL FIELD SERVICES, L.L.C.

1205

REMIT TO 18048 170RD  
RUSSELL, KS 67665

SERVICE POINT: Russell, KS

DATE <u>2-12-14</u>	SEC.	TWP.	RANGE	CALLED OUT	ON LOCATION	JOB START <u>11:30am</u>	JOB FINISH <u>12:00pm</u>
LEASE <u>Kraus</u>	WELL #. <u>3-14</u>	LOCATION			COUNTY <u>Graham</u>	STATE <u>KS</u>	
OLD OR <input checked="" type="radio"/> NEW (CIRCLE ONE)							

CONTRACTOR Skytop Drilling

TYPE OF JOB Surface

HOLE SIZE <u>12 1/4</u>	T.D. <u>266</u>
CASING SIZE <u>8 5/8</u>	DEPTH <u>267</u>
TUBING SIZE	DEPTH
DRILL PIPE	DEPTH
TOOL	DEPTH
PRES. MAX <u>300psi</u>	MINIMUM <u>100psi</u>
MEAS. LINE	SHOE JOINT
CEMENT LEFT IN CSG. <u>20SF</u>	
PERFS	
DISPLACEMENT <u>15.6 bbl</u>	

EQUIPMENT

PUMP TRUCK CEMENTER Heath

# P1 HELPER Cody

BULK TRUCK

# B1 DRIVER Eric Morke

BULK TRUCK

# DRIVER

OWNER

CEMENT AMOUNT ORDERED 175sr com 3% CC  
2% gel

COMMON @

POZMIX @

GEL @

CHLORIDE @

ASC @

HANDLING @

MILEAGE @

TOTAL

REMARKS:

Ran 6 hrs of 8 5/8 casing and landing it  
Est circulation with mud pump  
Hook up and mix 175sr and disp 15.6 bbl  
of H2O - shut in @ 300psi  
Cement did circulate

CHARGE TO: Stratagan Exploration

STREET

CITY STATE ZIP

SERVICE

DEPTH OF JOB

PUMP TRUCK CHARGE

EXTRA FOOTAGE @

MILEAGE @

MANIFOLD @

TOTAL

PLUG & FLOAT EQUIPMENT

@

@

@

@

@

TOTAL

Schippers Oil Field Services, L.L.C.,  
You are hereby requested to rent cementing equipment and furnish cementer and helper(s) to assist owner or contractor to do work as is listed. The above work was done to satisfaction and supervision of owner agent or contractor. I have read and understand the "GENERAL TERMS AND CONDITIONS" listed on the reverse side.

PRINTED NAME Thomas J. Engel

SIGNATURE [Signature]

SALES TAX (If Any)

TOTAL CHARGES

DISCOUNT IF PAID IN 30 DAYS



## DRILL STEM TEST REPORT

Prepared For: **StrataKan Exploration, LLC**

204 W Mill St  
Plainville, KS 67663

ATTN: Pat Balthazor

### **Kraus #3-14**

#### **13-8s-22w Graham,KS**

Start Date: 2014.02.17 @ 02:34:02

End Date: 2014.02.17 @ 11:13:02

Job Ticket #: 54005                      DST #: 1

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

Printed: 2014.02.19 @ 14:31:44



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

StrataKan Exploration, LLC

**13-8s-22w Graham,KS**

204 W Mill St  
Plainville, KS 67663

**Kraus #3-14**

Job Ticket: 54005

**DST#: 1**

ATTN: Pat Balthazor

Test Start: 2014.02.17 @ 02:34:02

## GENERAL INFORMATION:

Formation: **LKC "A"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 06:58:02

Time Test Ended: 11:13:02

Test Type: Conventional Bottom Hole (Initial)

Tester: Brannan L

Unit No: 48

**Interval: 3254.00 ft (KB) To 3322.00 ft (KB) (TVD)**

Reference Elevations: 2088.00 ft (KB)

Total Depth: 3322.00 ft (KB) (TVD)

2081.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 7.00 ft

**Serial #: 8321 Outside**

Press@RunDepth: 79.15 psig @ 3285.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2014.02.17

End Date:

2014.02.17

Last Calib.:

2014.02.17

Start Time: 02:34:03

End Time:

11:13:02

Time On Btm:

2014.02.17 @ 06:57:32

Time Off Btm:

2014.02.17 @ 09:03:02

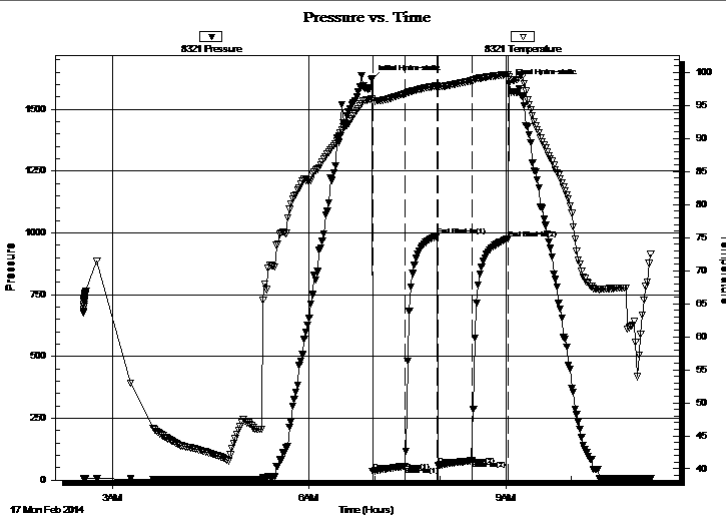
TEST COMMENT: 30- IF- Slow ly built to 2 1/2"

30- IS- No blow

30- FF- Slow ly built to 1"

30- FSI- No blow

## PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1622.37	95.95	Initial Hydro-static
1	35.23	95.67	Open To Flow (1)
30	56.38	96.74	Shut-In(1)
60	988.24	97.96	End Shut-In(1)
61	60.00	97.61	Open To Flow (2)
91	79.15	98.77	Shut-In(2)
124	975.90	99.71	End Shut-In(2)
126	1604.27	99.32	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
90.00	M	0.44

## Gas Rates

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





**TRILOBITE TESTING, INC.**

# DRILL STEM TEST REPORT

StrataKan Exploration, LLC

**13-8s-22w Graham,KS**

204 W Mill St  
Plainville, KS 67663

**Kraus #3-14**

Job Ticket: 54005

**DST#: 1**

ATTN: Pat Balthazor

Test Start: 2014.02.17 @ 02:34:02

## GENERAL INFORMATION:

Formation: **LKC "A"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 06:58:02

Time Test Ended: 11:13:02

Test Type: Conventional Bottom Hole (Initial)

Tester: Brannan L

Unit No: 48

**Interval: 3254.00 ft (KB) To 3322.00 ft (KB) (TVD)**

Total Depth: 3322.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Fair

Reference Elevations: 2088.00 ft (KB)

2081.00 ft (CF)

KB to GR/CF: 7.00 ft

**Serial #: 8372 Inside**

Press@RunDepth: psig @ 3285.00 ft (KB)

Start Date: 2014.02.17

End Date:

2014.02.17

Start Time: 02:33:34

End Time:

11:12:33

Capacity: 8000.00 psig

Last Calib.:

2014.02.17

Time On Btm:

Time Off Btm:

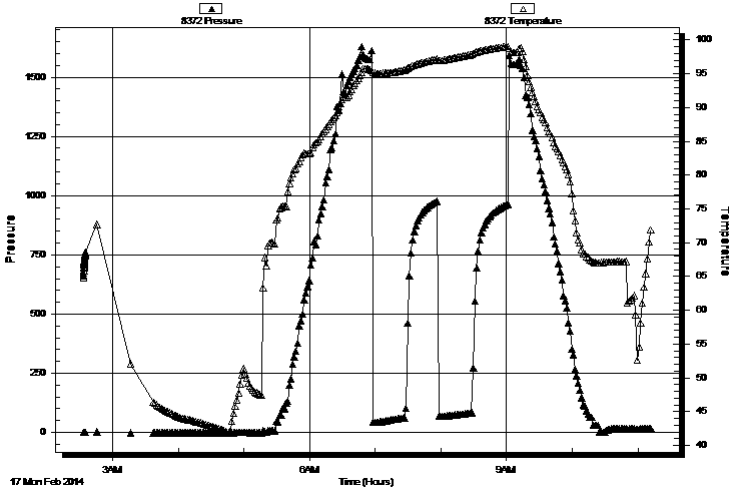
TEST COMMENT: 30- IF- Slow ly built to 2 1/2"

30- IS- No blow

30- FF- Slow ly built to 1"

30- FS- No blow

Pressure vs. Time



## PRESSURE SUMMARY

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

## Recovery

Length (ft)	Description	Volume (bbl)
90.00	M	0.44

## Gas Rates

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



**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

**TOOL DIAGRAM**

StrataKan Exploration, LLC

**13-8s-22w Graham,KS**

204 W Mill St  
Plainville, KS 67663

**Kraus #3-14**

Job Ticket: 54005

**DST#: 1**

ATTN: Pat Balthazor

Test Start: 2014.02.17 @ 02:34:02

## Tool Information

Drill Pipe:	Length: 3150.00 ft	Diameter: 3.75 inches	Volume: 43.03 bbl	Tool Weight: 2000.00 lb
Heavy Wt. Pipe:	Length: ft	Diameter: 2.75 inches	Volume: - bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 115.00 ft	Diameter: 2.25 inches	Volume: 0.57 bbl	Weight to Pull Loose: 55000.00 lb
			<u>Total Volume: - bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	31.00 ft			String Weight: Initial 47000.00 lb
Depth to Top Packer:	3254.00 ft			Final 49000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	68.00 ft			
Tool Length:	88.00 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			3235.00	
Shut In Tool	5.00			3240.00	
Hydraulic tool	5.00			3245.00	
Packer	5.00			3250.00	20.00 Bottom Of Top Packer
Packer	4.00			3254.00	
Stubb	1.00			3255.00	
Perforations	30.00			3285.00	
Recorder	0.00	8372	Inside	3285.00	
Recorder	0.00	8321	Outside	3285.00	
Blank Spacing	34.00			3319.00	
Bullnose	3.00			3322.00	68.00 Bottom Packers & Anchor

**Total Tool Length: 88.00**



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

StrataKan Exploration, LLC

**13-8s-22w Graham,KS**

204 W Mill St  
Plainville, KS 67663

**Kraus #3-14**

Job Ticket: 54005

**DST#: 1**

ATTN: Pat Balthazor

Test Start: 2014.02.17 @ 02:34:02

## 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: 69.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 6.39 in<sup>3</sup>

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 500.00 ppm

Filter Cake: inches

## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
90.00	M	0.443

Total Length: 90.00 ft      Total Volume: 0.443 bbl

Num Fluid Samples: 0

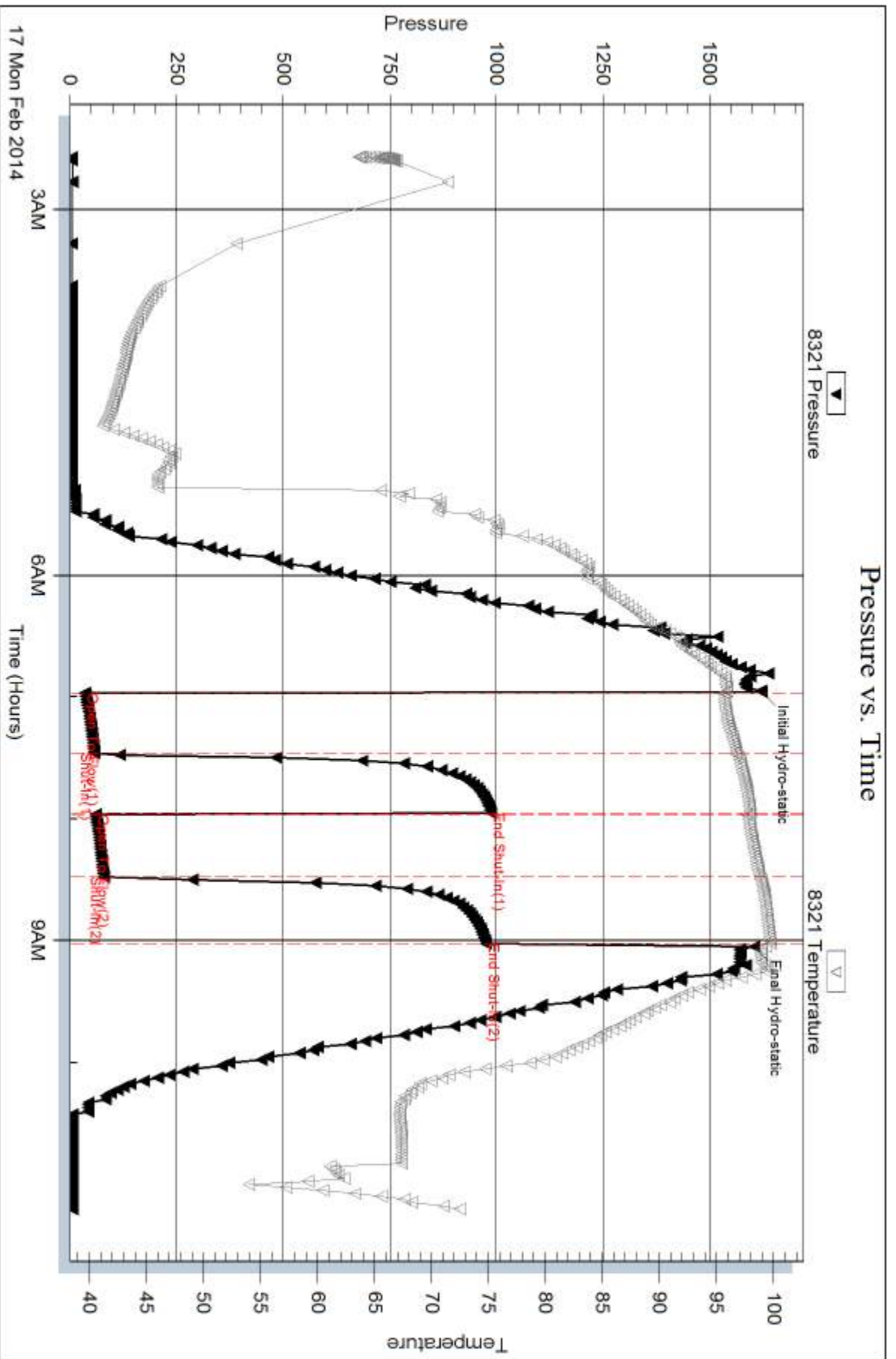
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:



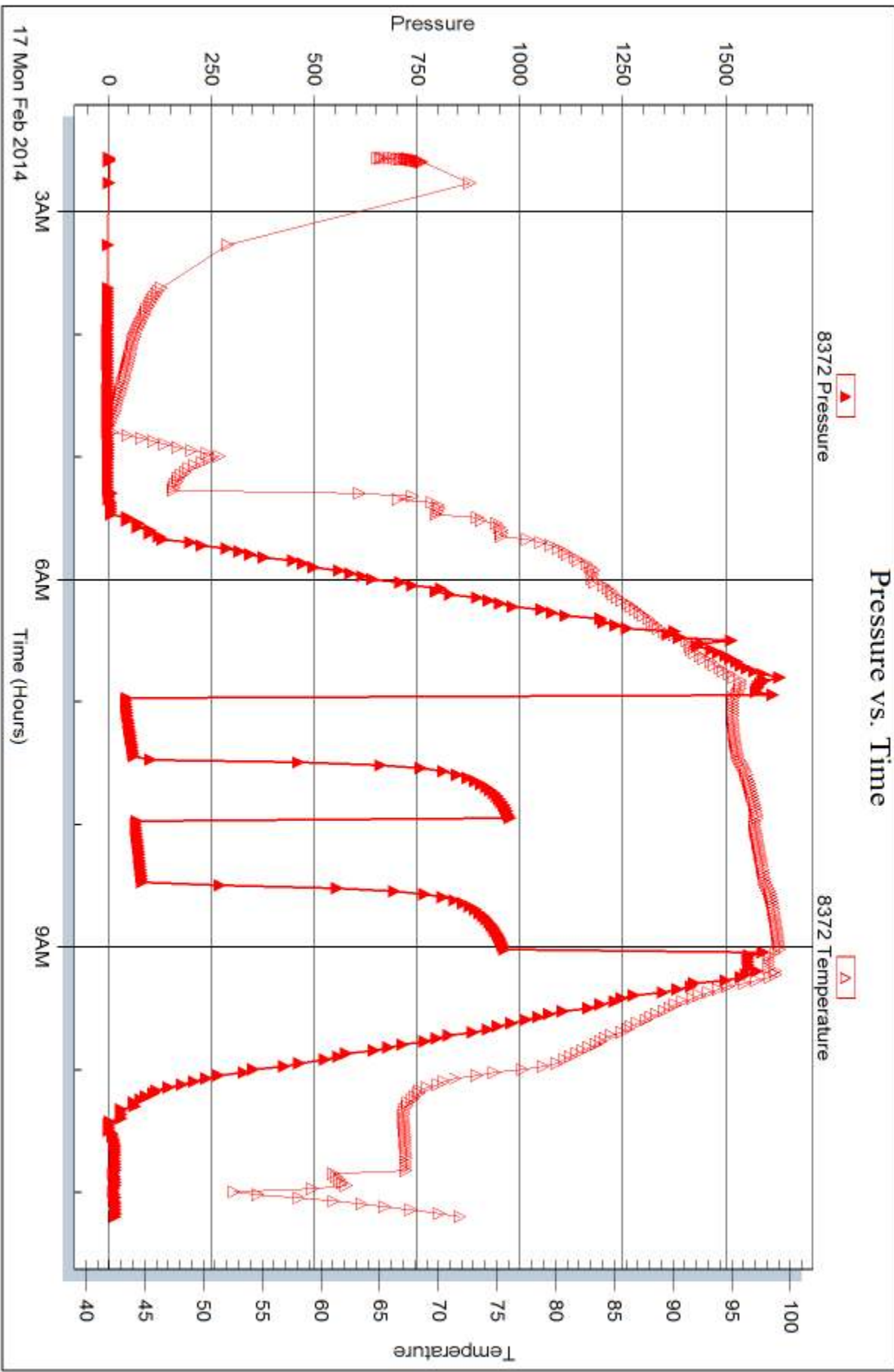
Serial #: 8372

Inside

StrataKan Exploration, LLC

Kraus #3-14

DST Test Number: 1





## DRILL STEM TEST REPORT

Prepared For: **StrataKan Exploration, LLC**

204 W Mill St  
Plainville, KS 67663

ATTN: Pat Balthazor

### **Kraus #3-14**

#### **13-8s-22w Graham,KS**

Start Date: 2014.02.18 @ 09:04:42

End Date: 2014.02.18 @ 15:27:42

Job Ticket #: 54006                      DST #: 2

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

Printed: 2014.02.19 @ 14:30:48



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

StrataKan Exploration, LLC

**13-8s-22w Graham,KS**

204 W Mill St  
Plainville, KS 67663

**Kraus #3-14**

Job Ticket: 54006

**DST#: 2**

ATTN: Pat Balthazor

Test Start: 2014.02.18 @ 09:04:42

## GENERAL INFORMATION:

Formation: **LKC "H-J"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 12:49:42

Time Test Ended: 15:27:42

Test Type: Conventional Bottom Hole (Reset)

Tester: Brannan L

Unit No: 48

**Interval: 3416.00 ft (KB) To 3486.00 ft (KB) (TVD)**

Reference Elevations: 2088.00 ft (KB)

Total Depth: 3486.00 ft (KB) (TVD)

2081.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 7.00 ft

**Serial #: 8372**

**Inside**

Press@RunDepth: 54.42 psig @ 3450.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2014.02.18

End Date:

2014.02.18

Last Calib.:

2014.02.18

Start Time: 09:04:43

End Time:

15:27:42

Time On Btm:

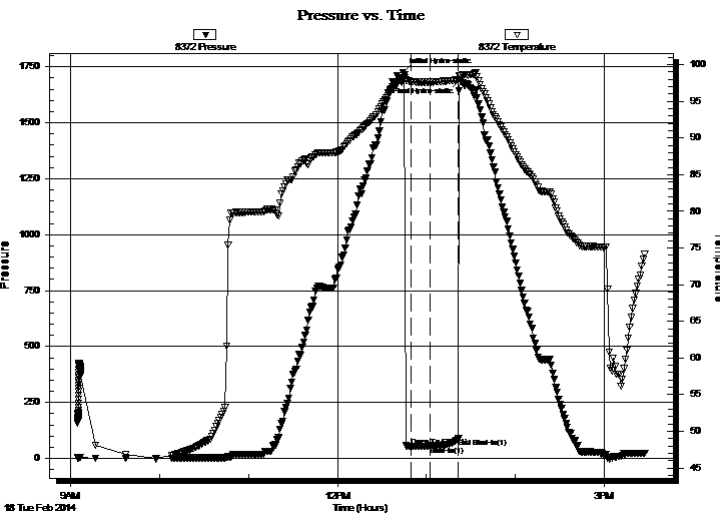
2014.02.18 @ 12:44:12

Time Off Btm:

2014.02.18 @ 13:22:42

TEST COMMENT: 15- IF- Surface blow died in 7 mins

15- IS- No blow



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1725.05	98.14	Initial Hydro-static
6	53.27	97.71	Open To Flow (1)
18	54.42	97.63	Shut-In(1)
38	88.93	97.94	End Shut-In(1)
39	1692.72	98.43	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
1.00	M	0.00

\* Recovery from multiple tests

## Gas Rates

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



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

StrataKan Exploration, LLC

204 W Mill St  
Plainville, KS 67663

ATTN: Pat Balthazor

**13-8s-22w Graham,KS**

**Kraus #3-14**

Job Ticket: 54006

**DST#: 2**

Test Start: 2014.02.18 @ 09:04:42

## GENERAL INFORMATION:

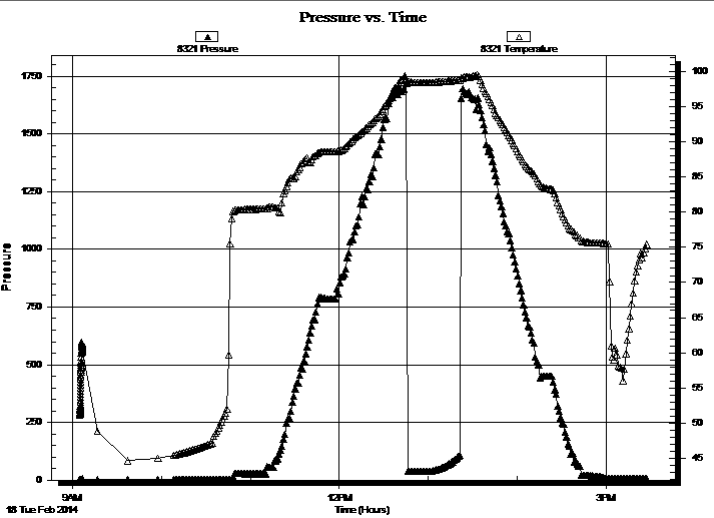
Formation: <b>LKC "H-J"</b>	Test Type: Conventional Bottom Hole (Reset)
Deviated: No Whipstock: ft (KB)	Tester: Brannan L
Time Tool Opened: 12:49:42	Unit No: 48
Time Test Ended: 15:27:42	Reference Elevations: 2088.00 ft (KB)
<b>Interval: 3416.00 ft (KB) To 3486.00 ft (KB) (TVD)</b>	2081.00 ft (CF)
Total Depth: 3486.00 ft (KB) (TVD)	KB to GR/CF: 7.00 ft
Hole Diameter: 7.88 inches	Hole Condition: Fair

**Serial #: 8321**

**Outside**

Press@RunDepth: psig @ 3450.00 ft (KB)	Capacity: 8000.00 psig
Start Date: 2014.02.18	End Date: 2014.02.18
Start Time: 09:04:48	End Time: 15:27:47
	Last Calib.: 2014.02.18
	Time On Btm:
	Time Off Btm:

TEST COMMENT: 15- IF- Surface blow died in 7 mins  
15- IS- No blow



## PRESSURE SUMMARY

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

## Recovery

Length (ft)	Description	Volume (bbl)
1.00	M	0.00

## Gas Rates

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

\* Recovery from multiple tests





**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

**TOOL DIAGRAM**

StrataKan Exploration, LLC

**13-8s-22w Graham,KS**

204 W Mill St  
Plainville, KS 67663

**Kraus #3-14**

Job Ticket: 54006

**DST#: 2**

ATTN: Pat Balthazor

Test Start: 2014.02.18 @ 09:04:42

## Tool Information

Drill Pipe:	Length: 3304.00 ft	Diameter: 3.75 inches	Volume: 45.13 bbl	Tool Weight:	2000.00 lb
Heavy Wt. Pipe:	Length: ft	Diameter: 2.75 inches	Volume: - bbl	Weight set on Packer:	25000.00 lb
Drill Collar:	Length: 115.00 ft	Diameter: 2.25 inches	Volume: 0.57 bbl	Weight to Pull Loose:	52000.00 lb
			<u>Total Volume:</u>	Tool Chased	0.00 ft
				String Weight: Initial	50000.00 lb
Drill Pipe Above KB:	23.00 ft			Final	50000.00 lb
Depth to Top Packer:	3416.00 ft				
Depth to Bottom Packer:	ft				
Interval between Packers:	70.00 ft				
Tool Length:	90.00 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			3397.00	
Shut In Tool	5.00			3402.00	
Hydraulic tool	5.00			3407.00	
Packer	5.00			3412.00	20.00 Bottom Of Top Packer
Packer	4.00			3416.00	
Stubb	1.00			3417.00	
Perforations	33.00			3450.00	
Recorder	0.00	8372	Inside	3450.00	
Recorder	0.00	8321	Outside	3450.00	
Blank Spacing	33.00			3483.00	
Bullnose	3.00			3486.00	70.00 Bottom Packers & Anchor

**Total Tool Length: 90.00**



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

## FLUID SUMMARY

StrataKan Exploration, LLC

**13-8s-22w Graham,KS**

204 W Mill St  
Plainville, KS 67663

**Kraus #3-14**

Job Ticket: 54006

**DST#: 2**

ATTN: Pat Balthazor

Test Start: 2014.02.18 @ 09:04:42

### 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: 55.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.99 in<sup>3</sup>

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 1000.00 ppm

Filter Cake: inches

### Recovery Information

Recovery Table

Length ft	Description	Volume bbl
1.00	M	0.005

Total Length: 1.00 ft      Total Volume: 0.005 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

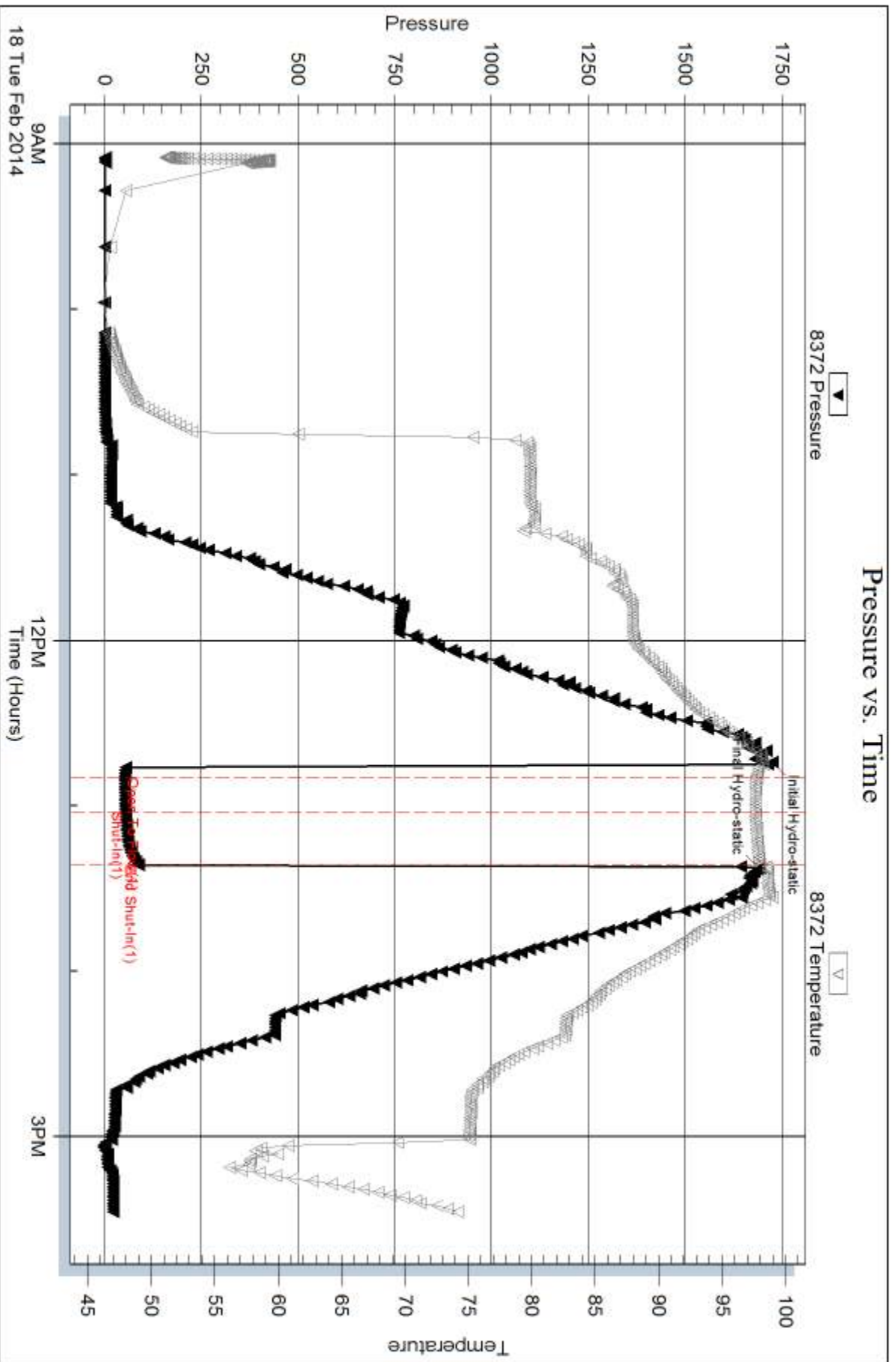
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Inside

StrataKan Exploration, LLC

Kraus #3-14

DST Test Number: 2



Triobite Testing, Inc

Ref. No: 54006

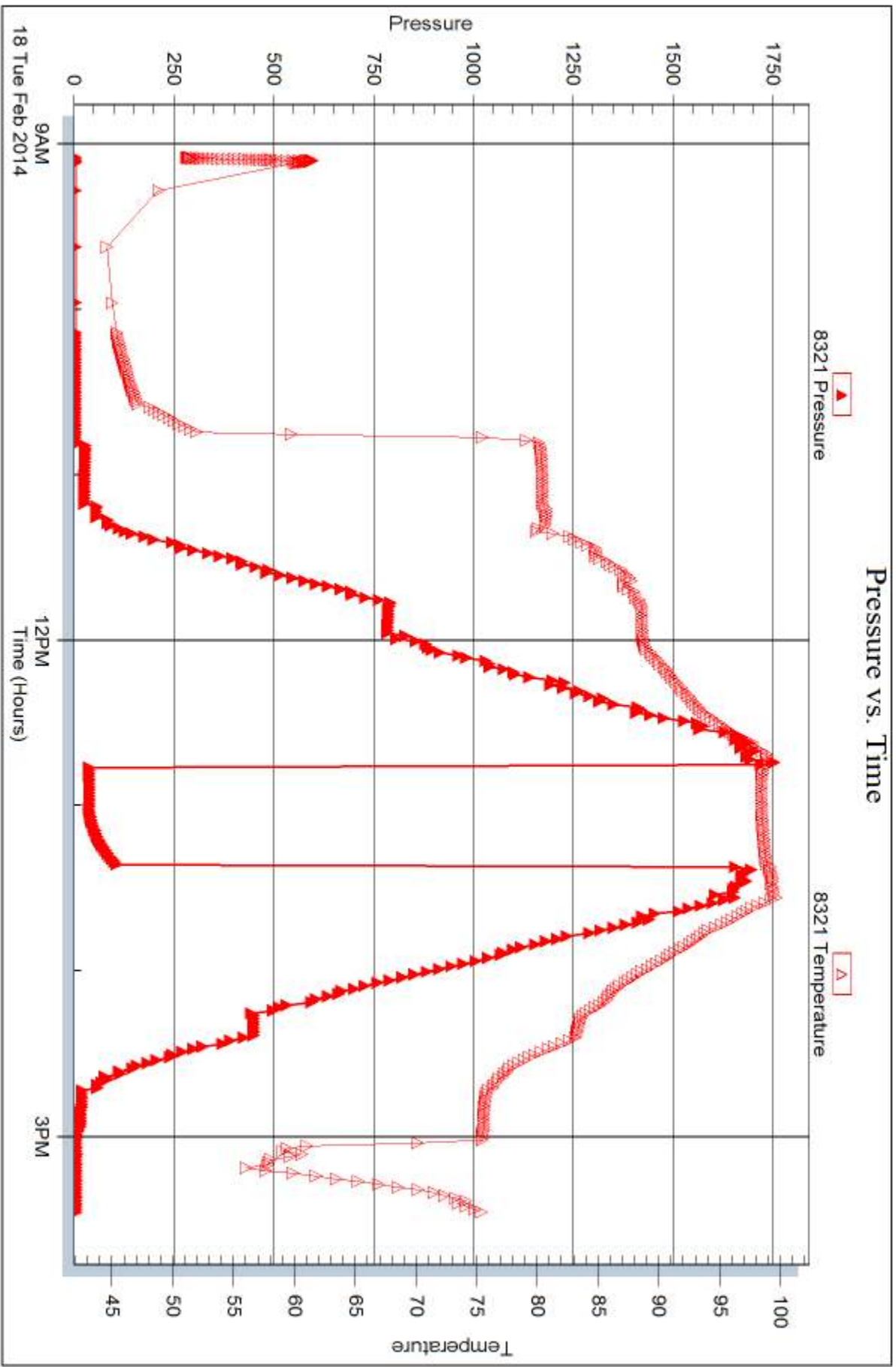
Printed: 2014.02.19 @ 14:30:50

Serial #: 8321

Outside StrataKan Exploration, LLC

Kraus #3-14

DST Test Number: 2



Tribble Testing, Inc

Ref. No: 54006

Printed: 2014.02.19 @ 14:30:50



## DRILL STEM TEST REPORT

Prepared For: **StrataKan Exploration, LLC**

204 W Mill St  
Plainville, KS 67663

ATTN: Pat Balthazor

### **Kraus #3-14**

#### **13-8s-22w Graham,KS**

Start Date: 2014.02.19 @ 00:14:43

End Date: 2014.02.19 @ 08:44:43

Job Ticket #: 54007                      DST #: 3

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

Printed: 2014.02.19 @ 14:29:52



**TRILOBITE TESTING, INC**

# DRILL STEM TEST REPORT

StrataKan Exploration, LLC

**13-8s-22w Graham,KS**

204 W Mill St  
Plainville, KS 67663

**Kraus #3-14**

Job Ticket: 54007

**DST#: 3**

ATTN: Pat Balthazor

Test Start: 2014.02.19 @ 00:14:43

## GENERAL INFORMATION:

Formation: **LKC "K-L"**  
 Deviated: No Whipstock: ft (KB)  
 Time Tool Opened: 03:37:13  
 Time Test Ended: 08:44:43  
 Interval: **3478.00 ft (KB) To 3520.00 ft (KB) (TVD)**  
 Total Depth: 3520.00 ft (KB) (TVD)  
 Hole Diameter: 7.88 inches Hole Condition: Fair  
 Test Type: Conventional Bottom Hole (Reset)  
 Tester: Brannan L  
 Unit No: 48  
 Reference Elevations: 2088.00 ft (KB)  
 2081.00 ft (CF)  
 KB to GR/CF: 7.00 ft

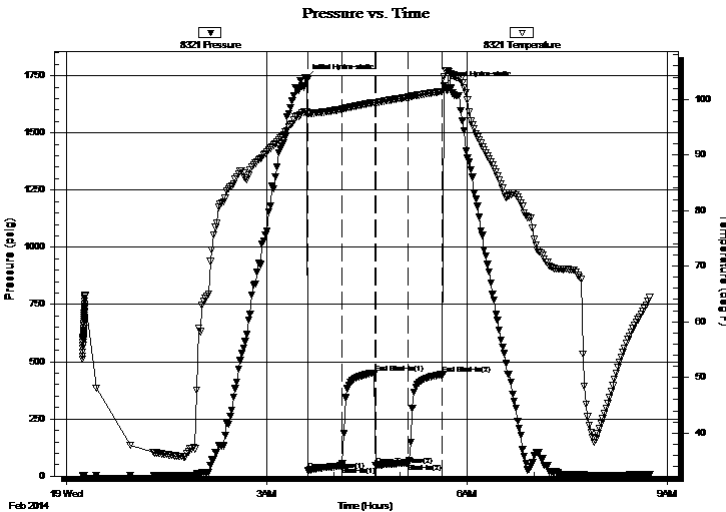
## Serial #: 8321

**Outside**

Press@RunDepth: 57.90 psig @ 3517.00 ft (KB)  
 Start Date: 2014.02.19 End Date: 2014.02.19  
 Start Time: 00:14:44 End Time: 08:44:43  
 Capacity: 8000.00 psig  
 Last Calib.: 2014.02.19  
 Time On Btm: 2014.02.19 @ 03:34:43  
 Time Off Btm: 2014.02.19 @ 05:39:13

TEST COMMENT: 30- IF- Slowly built to 2"  
 30- IS- No blow  
 30- FF- Slowly built to 1"  
 30- FS- No blow

## PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1739.12	97.68	Initial Hydro-static
3	25.92	97.48	Open To Flow (1)
33	44.91	98.21	Shut-In(1)
62	451.33	99.42	End Shut-In(1)
63	46.89	99.36	Open To Flow (2)
93	57.90	100.39	Shut-In(2)
123	444.35	101.40	End Shut-In(2)
125	1708.20	104.09	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
75.00	WM, 80%M	0.37

\* Recovery from multiple tests

## Gas Rates

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



**TRILOBITE  
TESTING, INC.**

**DRILL STEM TEST REPORT**

StrataKan Exploration, LLC

**13-8s-22w Graham,KS**

204 W Mill St  
Plainville, KS 67663

**Kraus #3-14**

Job Ticket: 54007

**DST#: 3**

ATTN: Pat Balthazor

Test Start: 2014.02.19 @ 00:14:43

**GENERAL INFORMATION:**

Formation: **LKC "K-L"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 03:37:13

Time Test Ended: 08:44:43

Test Type: Conventional Bottom Hole (Reset)

Tester: Brannan L

Unit No: 48

**Interval: 3478.00 ft (KB) To 3520.00 ft (KB) (TVD)**

Reference Elevations: 2088.00 ft (KB)

Total Depth: 3520.00 ft (KB) (TVD)

2081.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 7.00 ft

**Serial #: 8372 Inside**

Press@RunDepth: psig @ 3517.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2014.02.19 End Date: 2014.02.19

Last Calib.: 2014.02.19

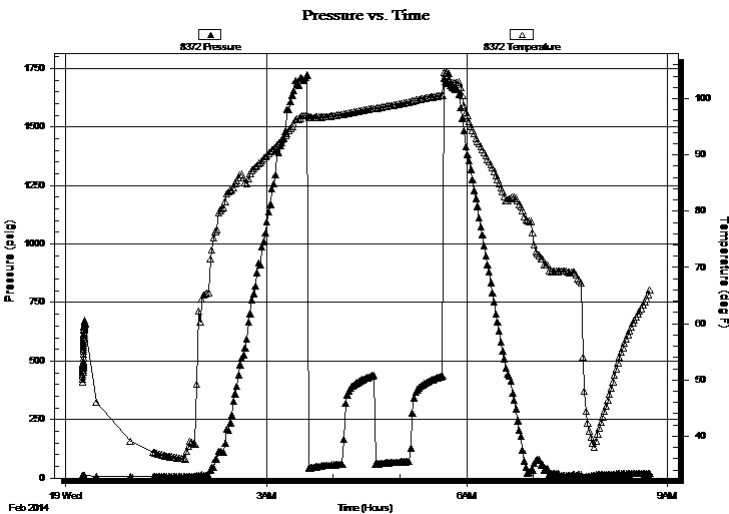
Start Time: 00:15:05 End Time: 08:45:04

Time On Btm:

Time Off Btm:

TEST COMMENT: 30- IF- Slow ly built to 2"  
30- IS- No blow  
30- FF- Slow ly built to 1"  
30- FS- No blow

**PRESSURE SUMMARY**



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

**Recovery**

Length (ft)	Description	Volume (bbl)
75.00	WM, 80%M	0.37

**Gas Rates**

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

\* Recovery from multiple tests



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

**TOOL DIAGRAM**

StrataKan Exploration, LLC

**13-8s-22w Graham,KS**

204 W Mill St  
Plainville, KS 67663

**Kraus #3-14**

Job Ticket: 54007

**DST#: 3**

ATTN: Pat Balthazor

Test Start: 2014.02.19 @ 00:14:43

## Tool Information

Drill Pipe:	Length: 3367.00 ft	Diameter: 3.75 inches	Volume: 46.00 bbl	Tool Weight:	2000.00 lb
Heavy Wt. Pipe:	Length: ft	Diameter: 2.75 inches	Volume: - bbl	Weight set on Packer:	25000.00 lb
Drill Collar:	Length: 115.00 ft	Diameter: 2.25 inches	Volume: 0.57 bbl	Weight to Pull Loose:	52000.00 lb
			<u>Total Volume:</u>	Tool Chased	0.00 ft
			- bbl	String Weight: Initial	49000.00 lb
Drill Pipe Above KB:	24.00 ft			Final	49000.00 lb
Depth to Top Packer:	3478.00 ft				
Depth to Bottom Packer:	ft				
Interval between Packers:	42.00 ft				
Tool Length:	62.00 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			3459.00	
Shut In Tool	5.00			3464.00	
Hydraulic tool	5.00			3469.00	
Packer	5.00			3474.00	20.00 Bottom Of Top Packer
Packer	4.00			3478.00	
Stubb	1.00			3479.00	
Perforations	38.00			3517.00	
Recorder	0.00	8372	Inside	3517.00	
Recorder	0.00	8321	Outside	3517.00	
Bullnose	3.00			3520.00	42.00 Bottom Packers & Anchor
<b>Total Tool Length:</b>	<b>62.00</b>				





**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

StrataKan Exploration, LLC

**13-8s-22w Graham,KS**

204 W Mill St  
Plainville, KS 67663

**Kraus #3-14**

Job Ticket: 54007

**DST#: 3**

ATTN: Pat Balthazor

Test Start: 2014.02.19 @ 00:14:43

## 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:

27000 ppm

Viscosity: 55.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.99 in<sup>3</sup>

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 1000.00 ppm

Filter Cake: inches

## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
75.00	WM, 80%M	0.369

Total Length: 75.00 ft      Total Volume: 0.369 bbl

Num Fluid Samples: 0

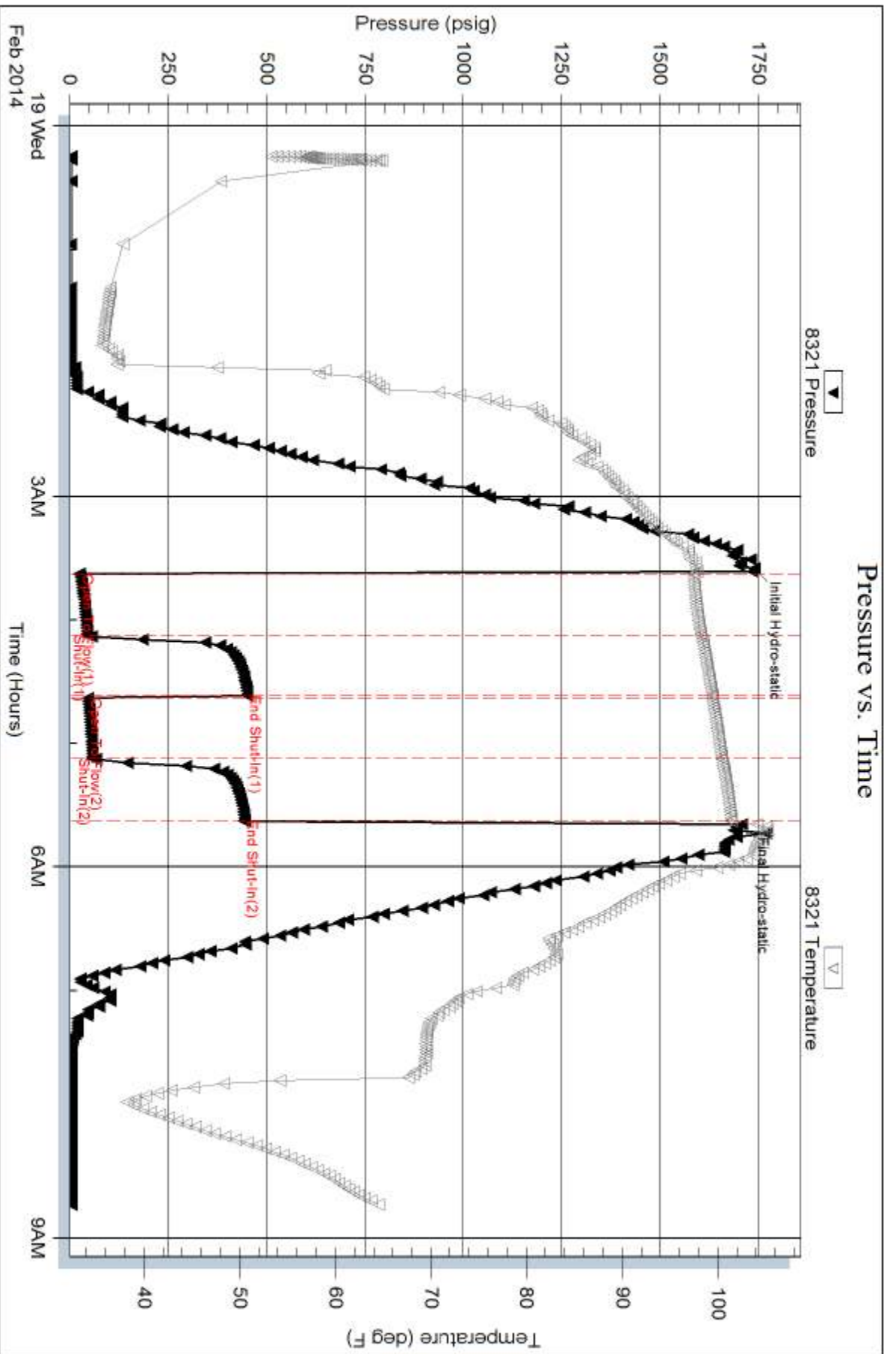
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:



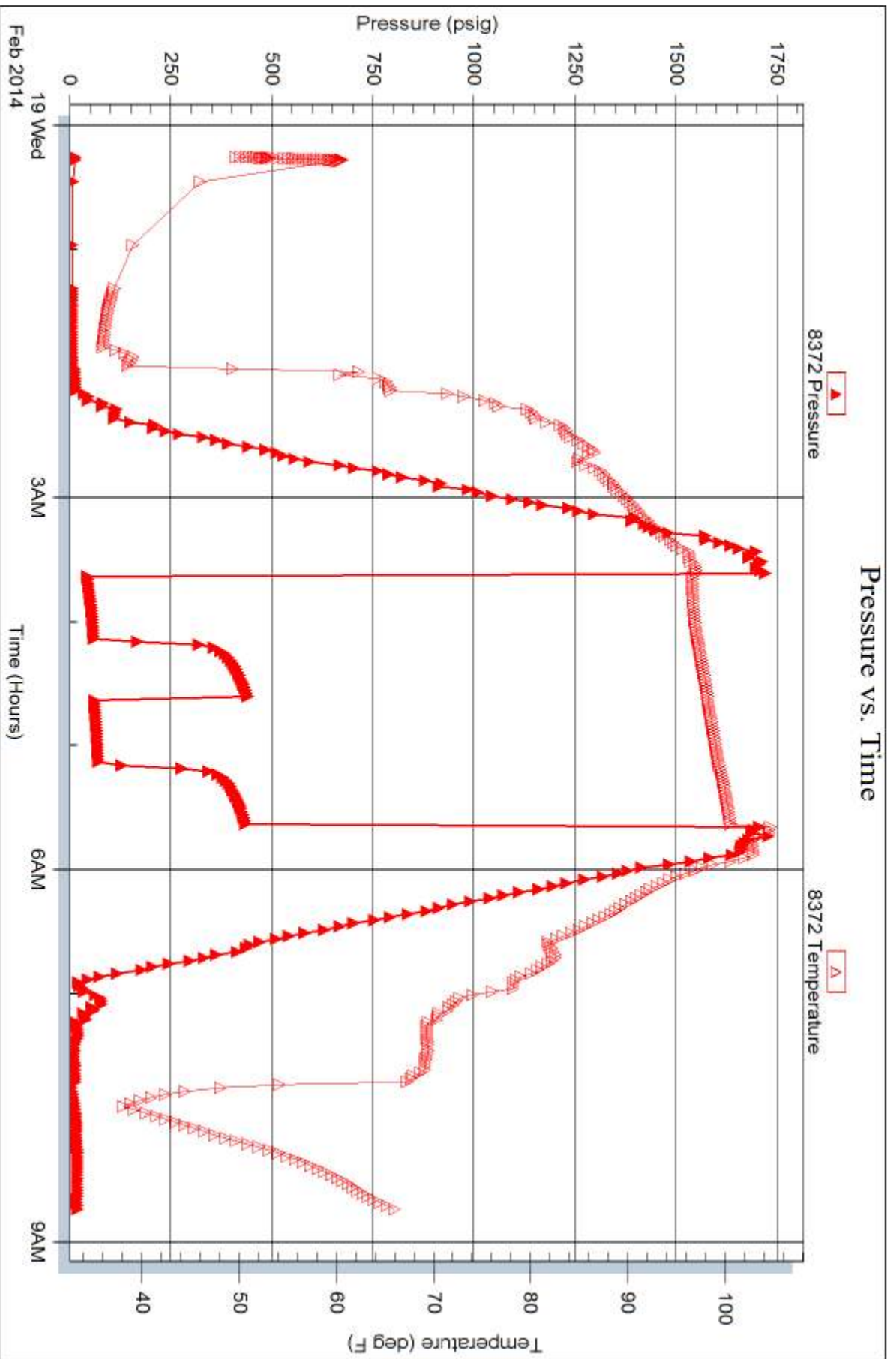
Serial #: 8372

Inside

StrataKan Exploration, LLC

Kraus #3-14

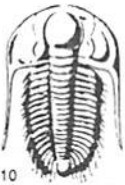
DST Test Number: 3



Trilobite Testing, Inc

Ref. No: 54007

Printed: 2014.02.19 @ 14:29:55



# TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

## Test Ticket

NO. 54005

Well Name & No. Kraws #3-14 Test No. 1 Date 2/17/14  
 Company StrataKan Exploration, LLC Elevation 2088 KB 2081 GL  
 Address 204 W. Mill St. Plainville, KS 67663  
 Co. Rep / Geo. Pat Balthazor Rig Skytop  
 Location: Sec. 13 Twp. 8s Rge. 22w Co. Graham State KS

Interval Tested 3254-3322 Zone Tested LKC "A"  
 Anchor Length 68' Drill Pipe Run 3150 Mud Wt. 816  
 Top Packer Depth 3249 Drill Collars Run 115 Vis 69  
 Bottom Packer Depth 3254 Wt. Pipe Run ———— WL 614  
 Total Depth 3322 Chlorides 500 ppm System LCM 1/2 #

Blow Description IF - Slowly built to 2 1/2"  
ISI - No blow  
FF - Slowly built to 1"  
FSI - No blow

Rec	Feet of	%gas	%oil	%water	%mud
<u>90</u>	<u>M</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

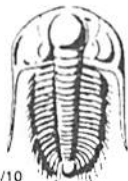
Rec Total 90' BHT 100° Gravity ———— API RW ———— @ ———— °F Chlorides ———— ppm

(A) Initial Hydrostatic 1622  Test 1150 T-On Location 0207  
 (B) First Initial Flow 35  Jars ———— T-Started 0234  
 (C) First Final Flow 56  Safety Joint ———— T-Open 0658  
 (D) Initial Shut-In 988  Circ Sub ———— T-Pulled 0858  
 (E) Second Initial Flow 60  Hourly Standby ———— T-Out 1114  
 (F) Second Final Flow 79  Mileage 124 RT 192.20 Comments ————  
 (G) Final Shut-In 976  Sampler ————  
 (H) Final Hydrostatic 1604  Straddle ————  Ruined Shale Packer ————  
 Shale Packer ————  Ruined Packer ————

Initial Open 30  Extra Packer ————  Extra Copies ————  
 Initial Shut-In 30  Extra Recorder ———— Sub Total 0  
 Final Flow 30  Day Standby ———— Total 1342.20  
 Final Shut-In 30  Accessibility ———— MP/DST Disc't ————  
 Sub Total 1342.20

Approved By ———— Our Representative Bragman L

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. 54006

Well Name & No. Krans #3-14 Test No. 2 Date 2/18/14  
 Company Stratagan Exploration, LLC Elevation 2088 KB 2081 GL  
 Address 204 W. Mill St. Plainville, KS 67663  
 Co. Rep / Geo. Pat Balthazor Rig skytop  
 Location: Sec. 13 Twp. 8s Rge. 22w Co. Graham State KS

Interval Tested ~~3254-33~~ 3416-3486 Zone Tested LKC - "HJ"  
 Anchor Length 70' Drill Pipe Run 3304 Mud Wt. 9.2  
 Top Packer Depth 3411 Drill Collars Run 115 Vis 55  
 Bottom Packer Depth 3416 Wt. Pipe Run \_\_\_\_\_ WL 8.0  
 Total Depth 3486 Chlorides 1,000 ppm System LCM 1#  
 Blow Description IF - Surface blow died in 7 mins  
ISI - No blow

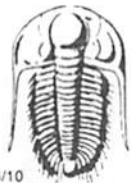
Rec	Feet of	%gas	%oil	%water	%mud
<u>1</u>	<u>M</u>				

Rec Total 1' BHT 98° Gravity \_\_\_\_\_ API RW \_\_\_\_\_ @ \_\_\_\_\_ °F Chlorides \_\_\_\_\_ ppm

(A) Initial Hydrostatic 1725  Test 1150 T-On Location 0838  
 (B) First Initial Flow 53  Jars \_\_\_\_\_ T-Started 0905  
 (C) First Final Flow 54  Safety Joint \_\_\_\_\_ T-Open 1245  
 (D) Initial Shut-In 89  Circ Sub \_\_\_\_\_ T-Pulled 1315  
 (E) Second Initial Flow \_\_\_\_\_  Hourly Standby \_\_\_\_\_ T-Out 1528  
 (F) Second Final Flow \_\_\_\_\_  Mileage 124 RT 192.20 Comments \_\_\_\_\_  
 (G) Final Shut-In \_\_\_\_\_  Sampler \_\_\_\_\_  
 (H) Final Hydrostatic 1693  Straddle \_\_\_\_\_  Ruined Shale Packer \_\_\_\_\_  
 Shale Packer \_\_\_\_\_  Ruined Packer \_\_\_\_\_  
 Extra Packer \_\_\_\_\_  Extra Copies \_\_\_\_\_  
 Initial Open 15  Extra Recorder \_\_\_\_\_ Sub Total 0  
 Initial Shut-In 15  Day Standby \_\_\_\_\_ Total 1342.20  
 Final Flow \_\_\_\_\_  Accessibility \_\_\_\_\_ MP/DST Disc't \_\_\_\_\_  
 Final Shut-In \_\_\_\_\_ Sub Total 1342.20

Approved By \_\_\_\_\_ Our Representative Brannon L

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. 54007

Well Name & No. Kraas #3-14 Test No. 3 Date 2/19/14  
 Company Strata Kan Exploration, LLC Elevation 2088 KB 2081 GL  
 Address 204 W. Mill St. Plainville, KS 67663  
 Co. Rep / Geo. Pat Balthazor Rig skytap  
 Location: Sec. 13 Twp. 8s Rge. 22w Co. Graham State KS

Interval Tested 3478-3520 Zone Tested LKC "K-L"  
 Anchor Length 42' Drill Pipe Run 3367 Mud Wt. 9.2  
 Top Packer Depth 3473 Drill Collars Run 115 Vis 55  
 Bottom Packer Depth 3478 Wt. Pipe Run          WL 8  
 Total Depth 3520 Chlorides 1,000 ppm System LCM 1#

Blow Description IF - Slowly built to 2"  
ISI - No blow  
FP - Slowly built to 1"  
FSI - No blow

Rec	Feet of	%gas	%oil	%water	%mud
<u>75'</u>	<u>WM</u>			<u>20%</u>	<u>80%</u>
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 75' BHT 101° Gravity          API RW .51 @ 34 °F Chlorides 22,000 ppm

(A) Initial Hydrostatic 1739  Test 1150 T-On Location 0005  
 (B) First Initial Flow 26  Jars          T-Started 0015  
 (C) First Final Flow 45  Safety Joint          T-Open 0337  
 (D) Initial Shut-In 451  Circ Sub          T-Pulled 0537  
 (E) Second Initial Flow 47  Hourly Standby          T-Out 0845  
 (F) Second Final Flow 58  Mileage 124 RT 192.20 Comments           
 (G) Final Shut-In 444  Sampler           
 (H) Final Hydrostatic 1708  Straddle           
 Shale Packer           
 Ruined Shale Packer         

Initial Open 30  Ruined Packer           
 Initial Shut-In 30  Extra Copies           
 Final Flow 30  Extra Recorder          Sub Total 0  
 Final Shut-In 30  Day Standby          Total 1342.20  
 Accessibility          MP/DST Disc't           
 Sub Total 1342.20

Approved By          Our Representative Brannan L

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.



**COMPENSATED DENSITY  
NEUTRON  
LOG**

Company StrataKan Exploration, LLC.

Well Kraus #3-14

Field Unnamed

County Graham State KS

Location: API #: 15 065 24007

1033' FNL & 788' FWL

SEC 13 TWP 8S RGE 22W

Permanent Datum Ground Level Elevation 2077'

Log Measured From KB 7' AGL

Drilling Measured From KB

Other Services  
DIL  
ML  
Elevation  
K.B. 2084'  
D.F. 2083'  
G.L. 2077'

Date	2-20-14
Run Number	One
Depth Driller	3634'
Depth Logger	3630'
Bottom Logged Interval	3607'
Top Log Interval	2800'
Casing Driller	261'
Casing Logger	261'
Bit Size	7 7/8"
Type Fluid in Hole	Chemical Mud
Density / Viscosity	9.3/48
PH / Fluid Loss	10/8.4
Source of Sample	Pit
Rm @ Meas. Temp	1.1@58degf
Rmf @ Meas. Temp	.66@58degf
Rmc @ Meas. Temp	1@58degf
Source of Rmf / Rmc	Calculated
Rm @ BHT	.57@112degf
Time Circulation Stopped	11:30 p.m.
Time Logger on Bottom	1:40 a.m.
Maximum Recorded Temperature	112 degf
Equipment Number	T127
Location	Hays, KS.
Recorded By	Gus Pfannenstiel
Witnessed By	Mr. Pat Balhazor

<<< Fold Here >>>

All interpretations are opinions based on inferences from electrical or other measurements and we cannot and do not guarantee the accuracy or correctness of any interpretation, and we shall not, except in the case of gross or willful negligence on our part, 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. These interpretations are also subject to our general terms and conditions set out in our current Price Schedule.

**Comments**

Thank you for using Gemini Wireline  
785-625-1182



**Main Pass**

Database File sekraus#3-14oh.db  
 Dataset Pathname pass2  
 Presentation Format kcdnl  
 Dataset Creation Thu Feb 20 01:49:24 2014  
 Charted by Depth in Feet scaled 1:240

0	GR (GAPI)	150
6	DCAL (in)	16
6	BOREID (in)	16

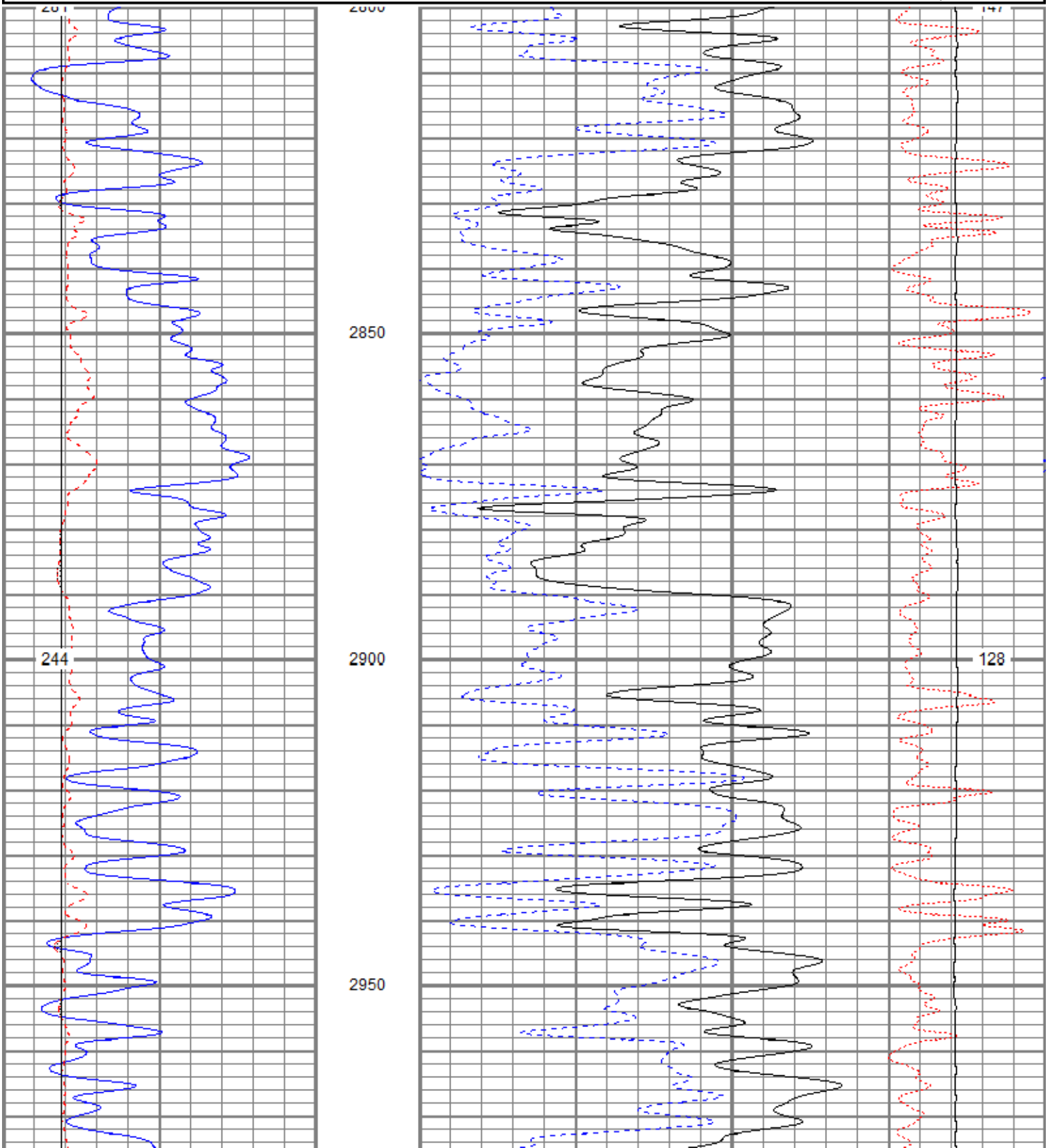
30	NPOR (pu)	-10
30	DPOR (pu)	-10
70	DPOR (pu)	30

TBHV (ft3)

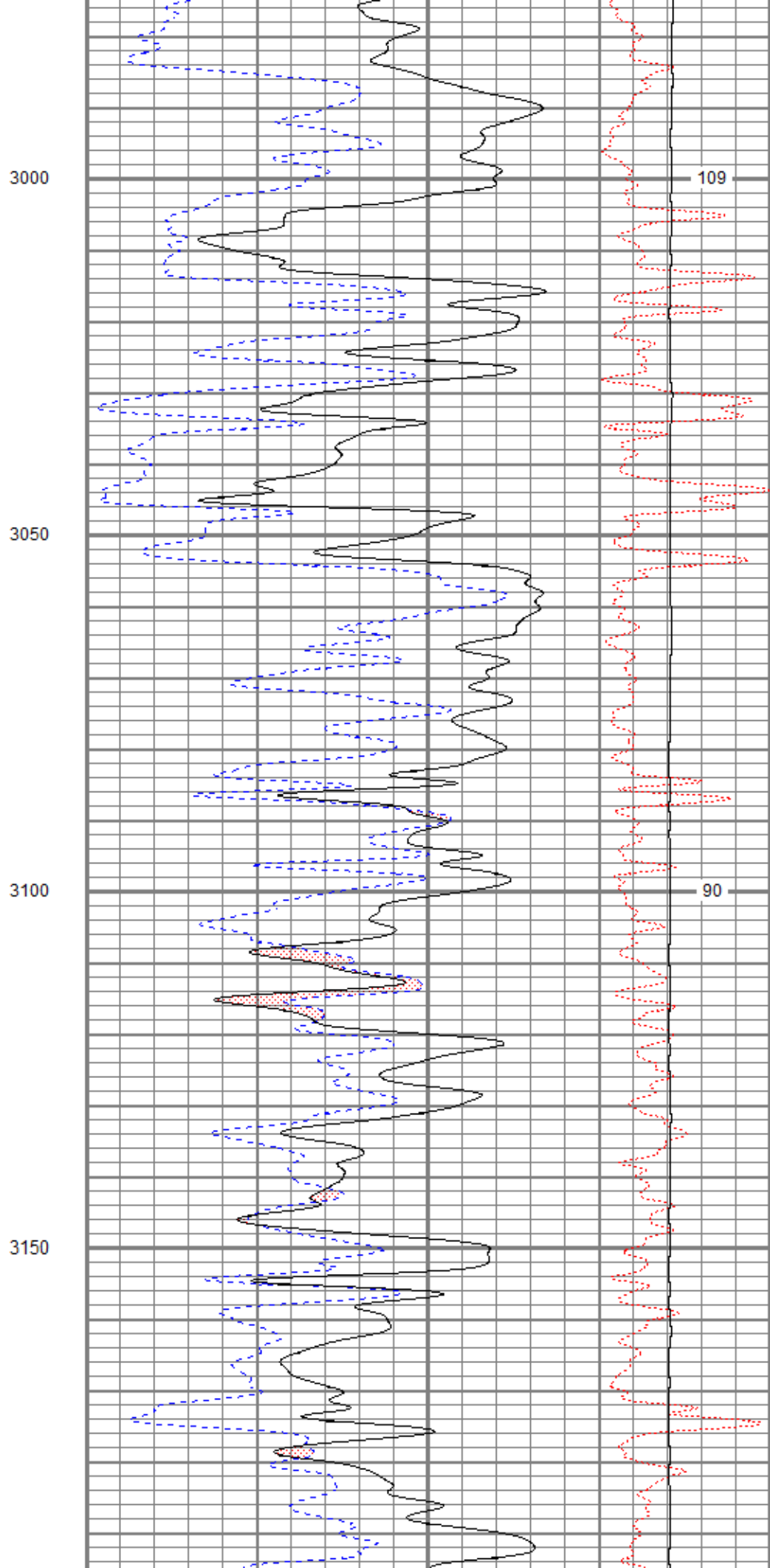
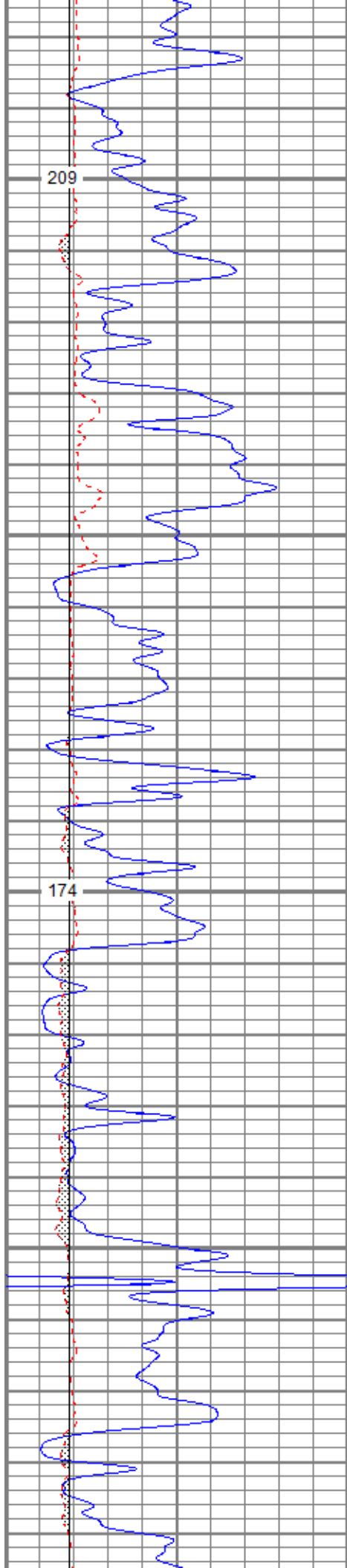
8000	LTEN (lb)	0
------	-----------	---

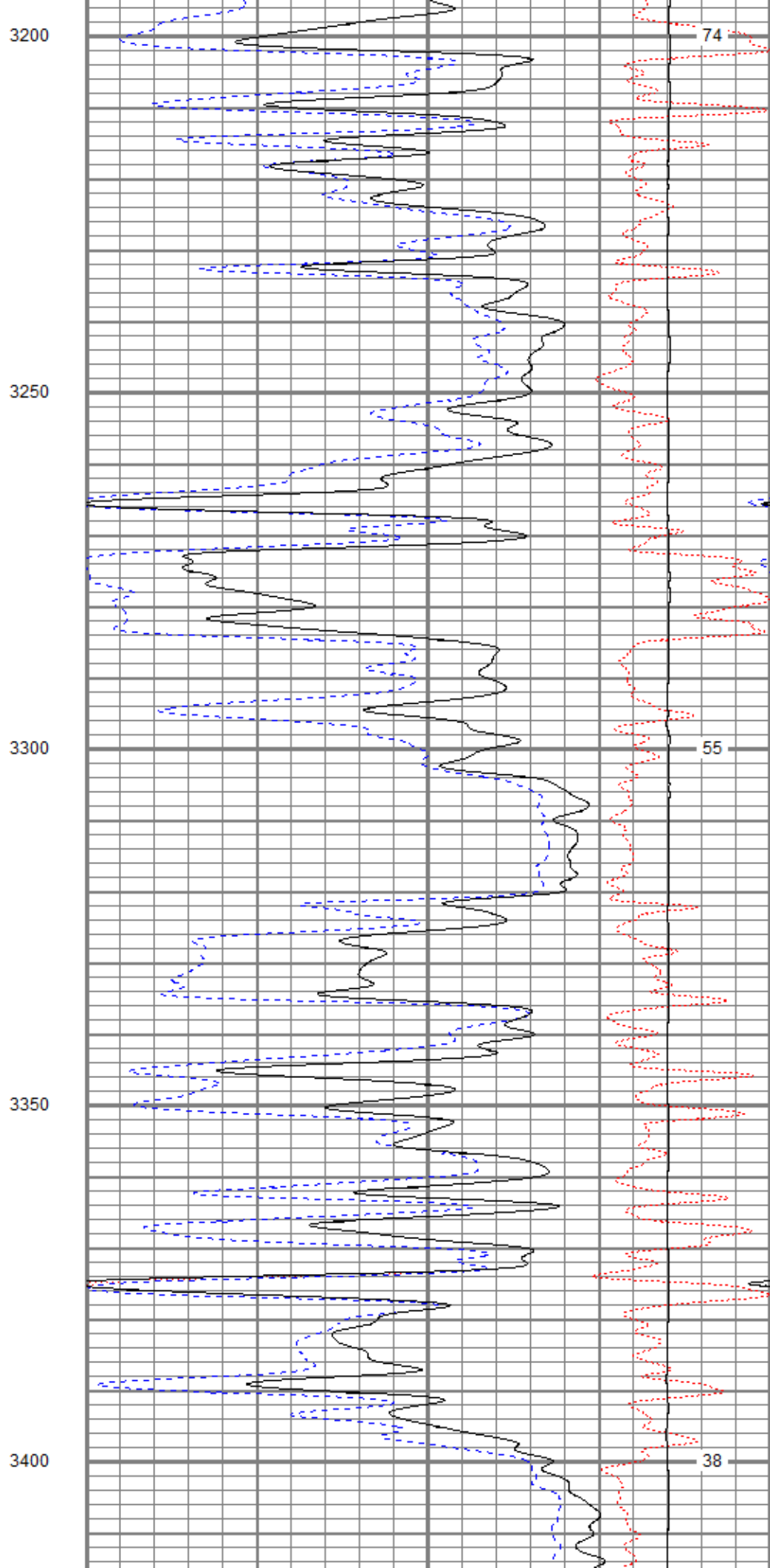
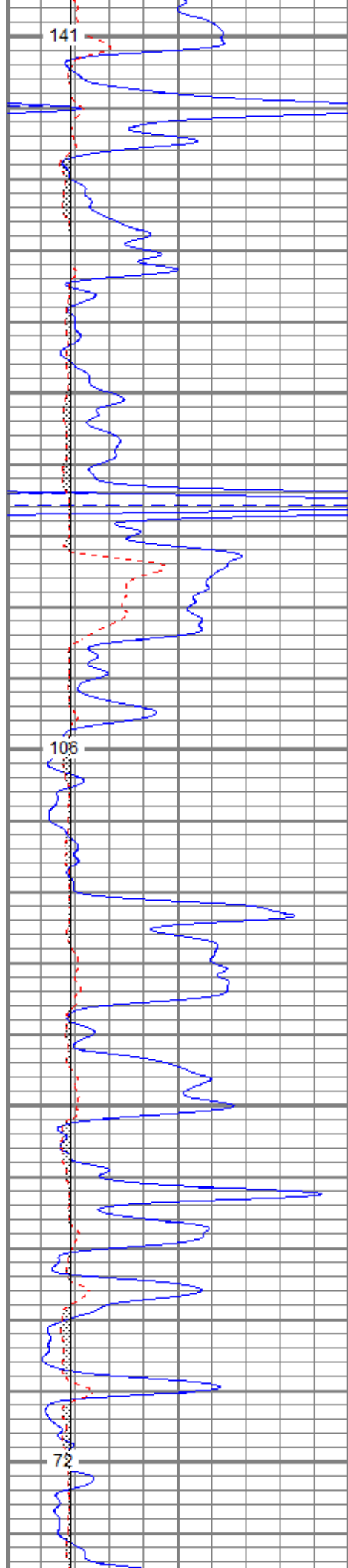
-0.25 RHOC (g/cc) 0.25

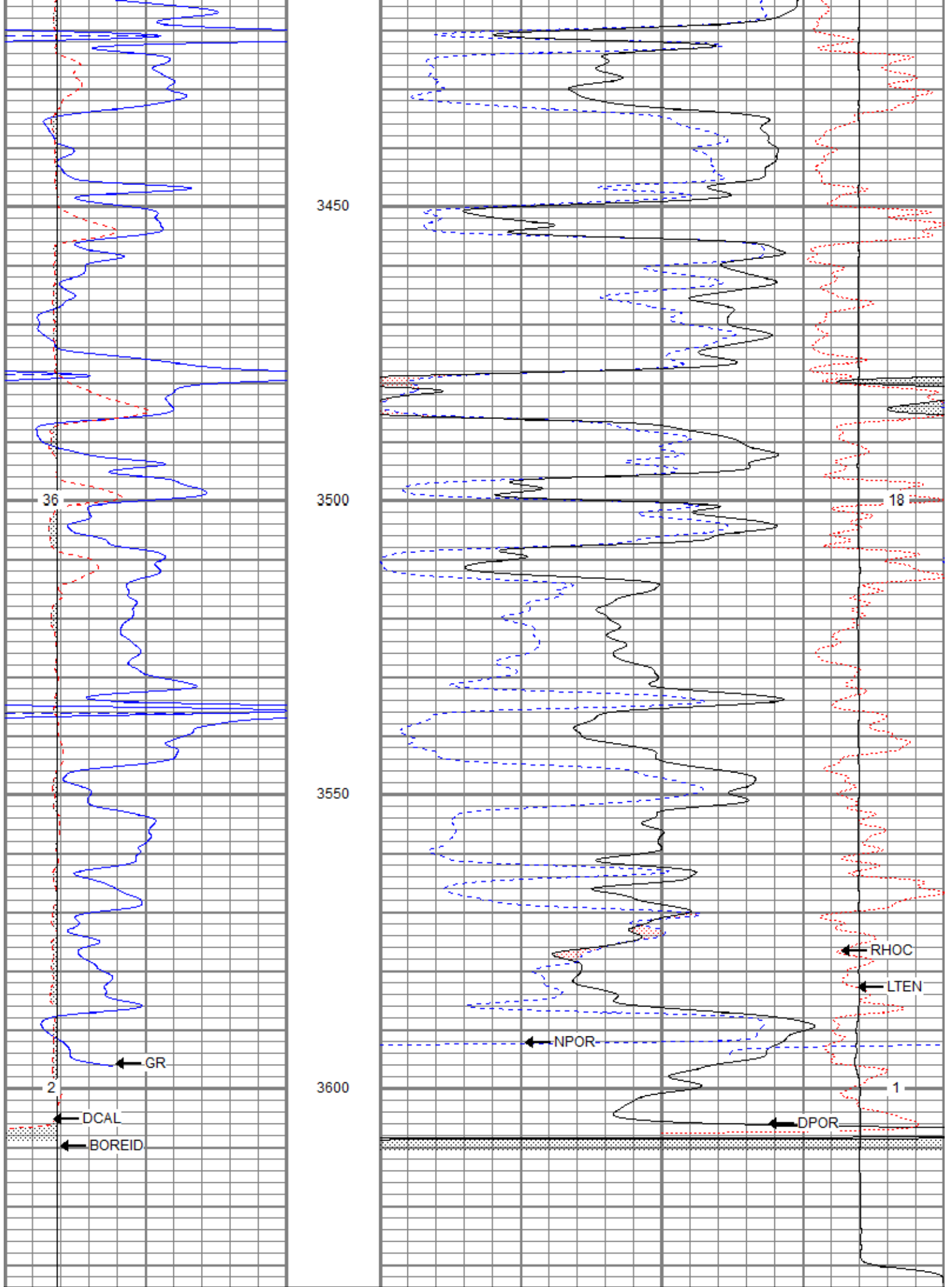
ABHV (ft3)











GR (GAPI)	150
6 DCAL (in)	16
6 BOREID (in)	16
TBHV (ft3)	

30 NPOR (pu)	-10
30 DPOR (pu)	-10
70 DPOR (pu)	30
8000 LTEN (lb)	0
-0.25 RHOC (g/cc)	0.25
ABHV (ft3)	

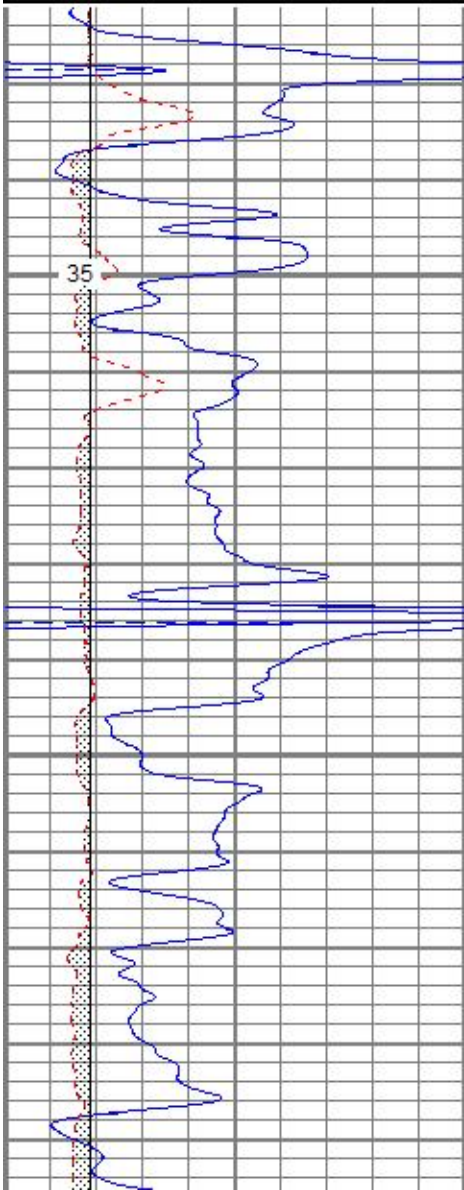


# Repeat Pass

Database File sekraus#3-14oh.db  
 Dataset Pathname pass1  
 Presentation Format kcdnl  
 Dataset Creation Thu Feb 20 01:42:13 2014  
 Charted by Depth in Feet scaled 1:240

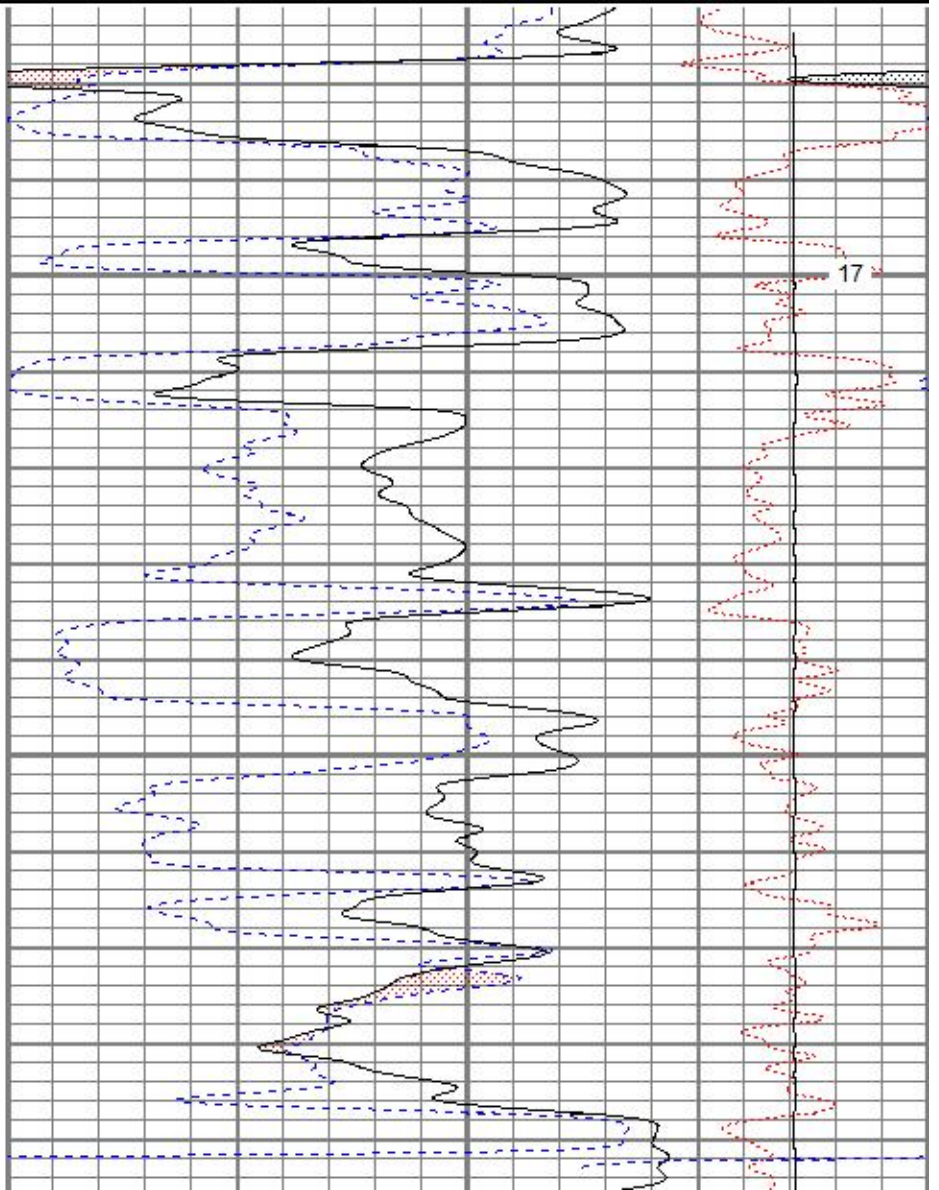
0 GR (GAPI)	150
6 DCAL (in)	16
6 BOREID (in)	16
TBHV (ft3)	

30 NPOR (pu)	-10
30 DPOR (pu)	-10
70 DPOR (pu)	30
8000 LTEN (lb)	0
-0.25 RHOC (g/cc)	0.25
ABHV (ft3)	

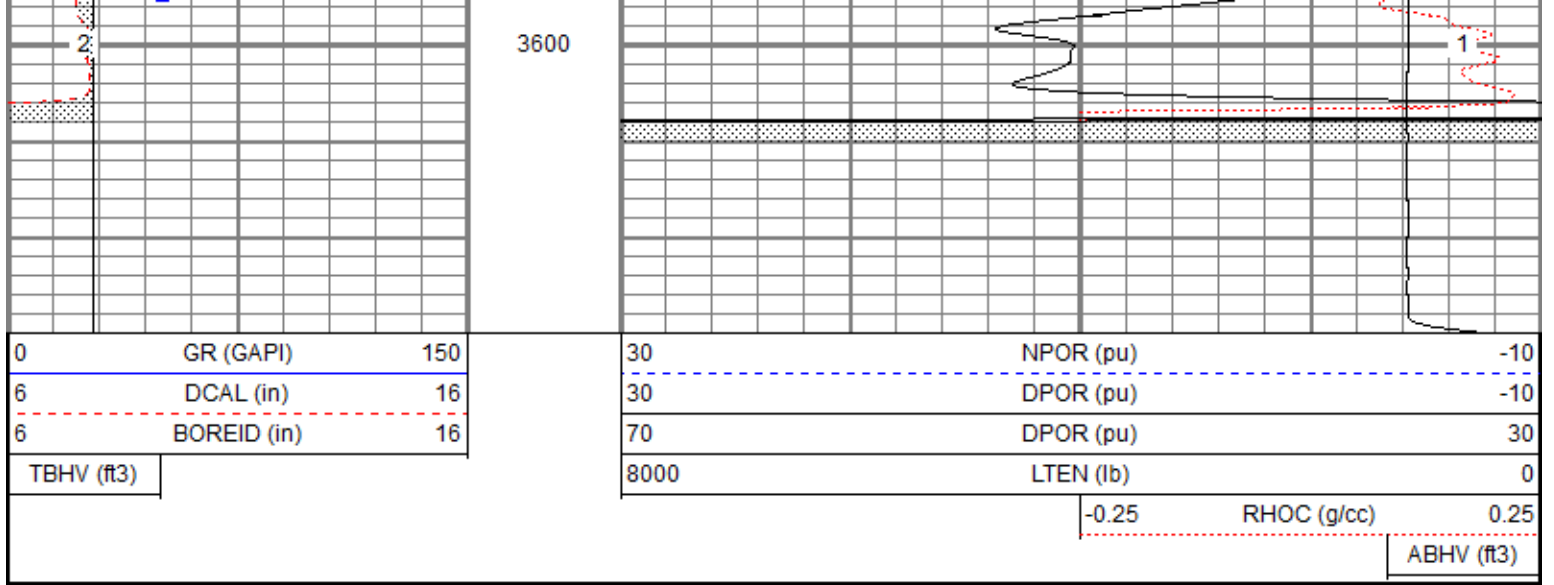


3500

3550



17



### Calibration Report

Database File sekraus#3-14oh.db  
 Dataset Pathname pass1  
 Dataset Creation Thu Feb 20 01:42:13 2014

### Dual Induction Calibration Report

Serial-Model: 5375-G  
 Surface Cal Performed: Fri Jan 17 15:42:54 2014  
 Downhole Cal Performed: Fri Jan 17 15:43:47 2014  
 After Survey Verification Performed: Fri Jan 17 15:43:47 2014

#### Surface Calibration

Loop:	Readings				References		Results	
	Air	Loop	V		Air	Loop	m	b
Deep	0.006	0.643	V	0.000	350.000	mmho/m	550.194	-3.523
Medium	0.009	0.731	V	0.000	400.000	mmho/m	553.963	-4.747
Internal:	Zero	Cal		Zero	Cal		m	b
Deep	0.006	0.643	V	0.000	350.000	mmho/m	549.825	-3.433
Medium	0.009	0.730	V	0.000	550.000	mmho/m	762.575	-6.847

#### Downhole Calibration

Internal:	Readings				References		Results	
	Zero	Cal	V		Zero	Cal	m	b
Deep	-0.010	350.050	mmho/m	-0.087	350.148	mmho/m	1.000	-0.077
Medium	-0.030	399.577	mmho/m	0.227	399.767	mmho/m	1.000	0.257
Shallow	2.436	0.016	V	500.000	2.000	Ohm-m	205.740	0.284

#### After Survey Verification

Internal:	Readings				Targets		Results	
	Zero	Cal	V		Zero	Cal	m'	b'
Deep	0.000	0.000	mmho/m	-0.010	350.050	mmho/m	1.000	-0.077
Medium	0.000	0.000	mmho/m	-0.030	399.577	mmho/m	1.000	0.257
Shallow	0.000	0.000	Ohm-m	500.000	2.000	Ohm-m	1.000	0.000

### Compensated Density Calibration Report

Serial-Model: 2501DHT-DHT  
 Source / Verifier: csv-j12 /  
 Master Calibration Performed: Fri Jan 17 15:43:47 2014

Master Calibration

	Density		Far Detector	Near Detector	
Magnesium	1.750	g/cc	729.27	293.87	cps
Aluminum	2.660	g/cc	137.64	190.18	cps
Spine Angle = 75.37			Density/Spine Ratio = 0.528		
	Size		Reading		
Small Ring	8.10	in	6273.19		
Large Ring	14.00	in	10676.90		

Before Survey Verification

Target	Measured
g/cc	g/cc
g/cc	g/cc
g/cc	g/cc

After Survey Verification


Target	Measured
g/cc	g/cc
g/cc	g/cc
g/cc	g/cc

Gamma Ray Calibration Report

Serial Number:	2001		
Tool Model:	OH		
Performed:	Fri Dec 06 16:11:56 2013		
Calibrator Value:	1.0	GAPI	
Background Reading:	0.0	cps	
Calibrator Reading:	1.0	cps	
Sensitivity:	0.2300	GAPI/cps	

Neutron Calibration Report

Serial Number:	5108		
Tool Model:	PROBE		
Performed:	Mon Oct 14 17:07:15 2013		
Calibrator Value:	1	NAPI	
Calibrator Reading:	1	cps	
Sensitivity:	1	NAPI/cps	

Sensor	Offset (ft)	Schematic	Description	Length (ft)	O.D. (in)	Weight (lb)
NEU	38.26		None	0.75	1.50	5.00
			NEU-PROBE (5108) Probe	4.92	3.63	85.00
GR	32.32		GR-OH (2001) 2001	3.56	3.25	40.00
			DHT (2501DHT) Digital High Temp CDL Tool	9.69	4.00	201.00
LSD	23.78					
DCAL	23.49					
SSD	23.24					

SSD	23.24					
HEADVOLT	21.47					
SP	10.60					
CILD	10.60					
CILM	6.89					
RLL3	1.70					
				DIL-G (5375) Gearhart	21.47	4.00
						345.00

Dataset: sekraus#3-14oh.db: field/well/run1/pass1  
 Total length: 40.39 ft  
 Total weight: 676.00 lb  
 O.D.: 4.00 in



**DUAL  
INDUCTION  
LOG**

Company StrataKan Exploration, LLC.

Well Kraus #3-14

Field Unnamed

County Graham

State KS

Location: API #: 15 065 24007

1033' FNL & 788' FWL

SEC 13 TWP 8S RGE 22W

Permanent Datum Ground Level Elevation 2077'

Log Measured From KB 7' AGL

Drilling Measured From KB

Other Services  
CDNL  
ML

Elevation

K.B. 2084'

D.F. 2083'

G.L. 2077'

Date 2-20-14

Run Number One

Depth Driller 3634'

Depth Logger 3630'

Bottom Logged Interval 3628'

Top Log Interval 250'

Casing Driller 261'

Casing Logger 261'

Bit Size 7 7/8"

Type Fluid in Hole Chemical Mud

Density / Viscosity 9.3/48

pH / Fluid Loss 10/8.4

Source of Sample Pit

Rm @ Meas. Temp 1.1@58degf

Rmf @ Meas. Temp .66@58degf

Rmc @ Meas. Temp 1@58degf

Source of Rmf / Rmc Calculated

Rm @ BHT .57@112degf

Time Circulation Stopped 11:30 p.m.

Time Logger on Bottom 1:40 a.m.

Maximum Recorded Temperature 112 degf

Equipment Number T127

Location Hays, KS.

Recorded By Gus Pfanenstiel

Witnessed By Mr. Pat Balhazor

Mr. Justin Prater

<<< Fold Here >>>

All interpretations are opinions based on inferences from electrical or other measurements and we cannot and do not guarantee the accuracy or correctness of any interpretation, and we shall not, except in the case of gross or willful negligence on our part, 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. These interpretations are also subject to our general terms and conditions set out in our current Price Schedule.

**Comments**

Thank you for using Gemini Wireline  
785-625-1182



**Main Pass**



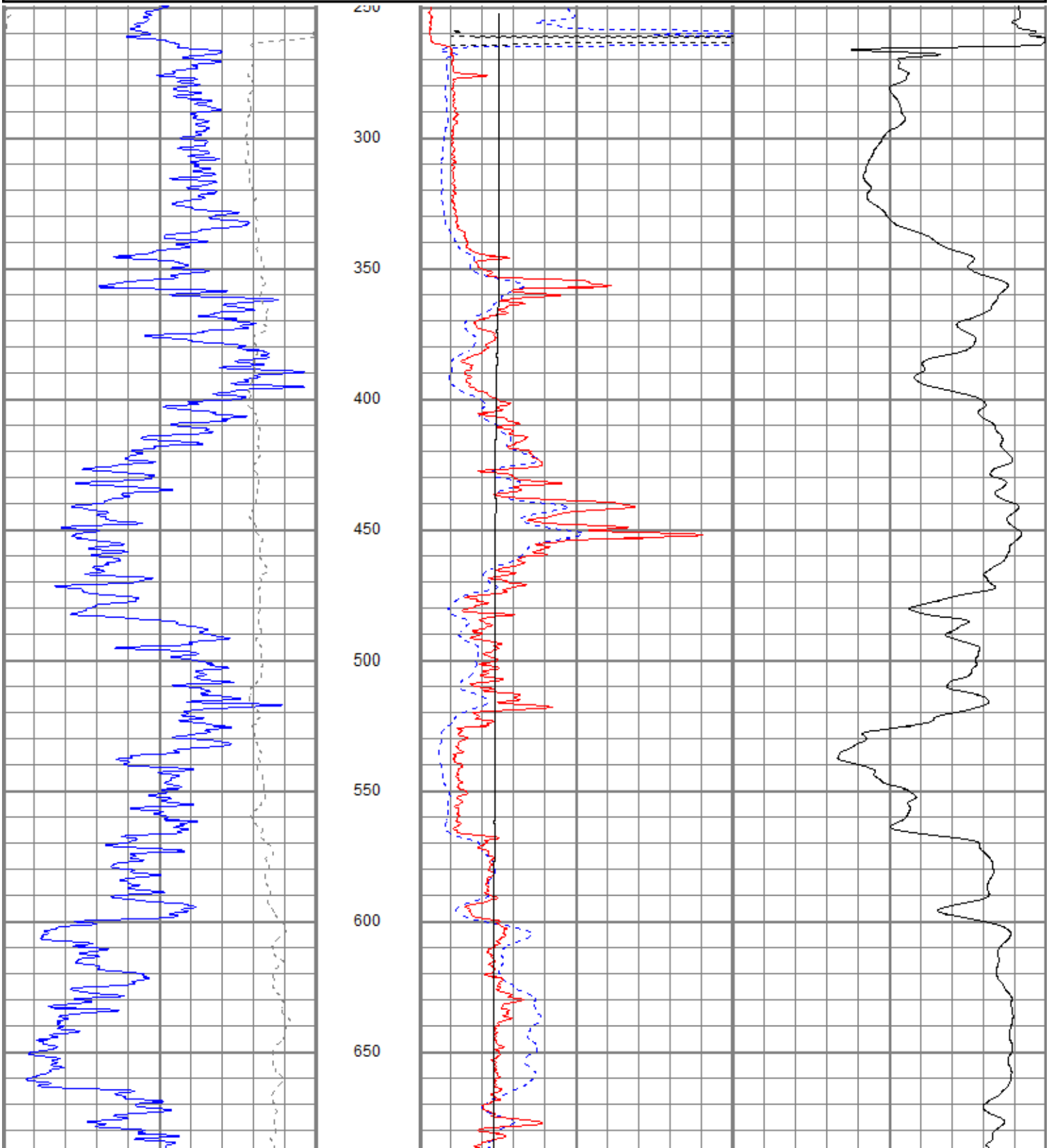
Database File sekraus#3-14oh.db  
 Dataset Pathname pass2  
 Presentation Format kdillin2  
 Dataset Creation Thu Feb 20 01:49:24 2014  
 Charted by Depth in Feet scaled 1:600

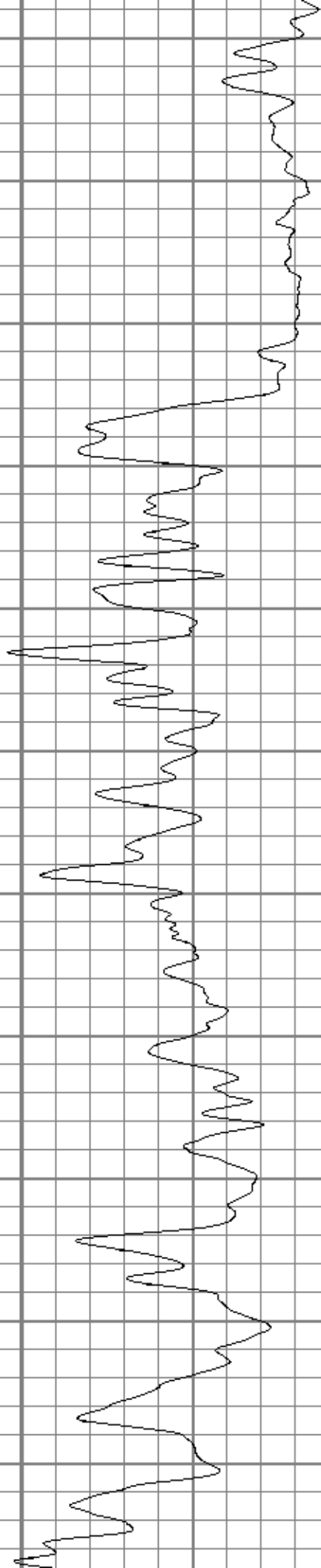
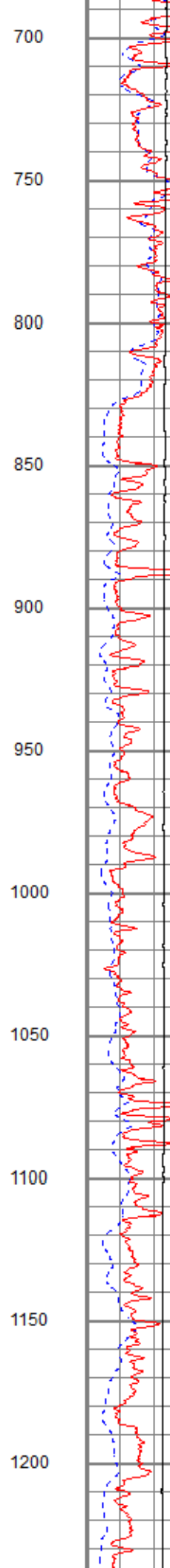
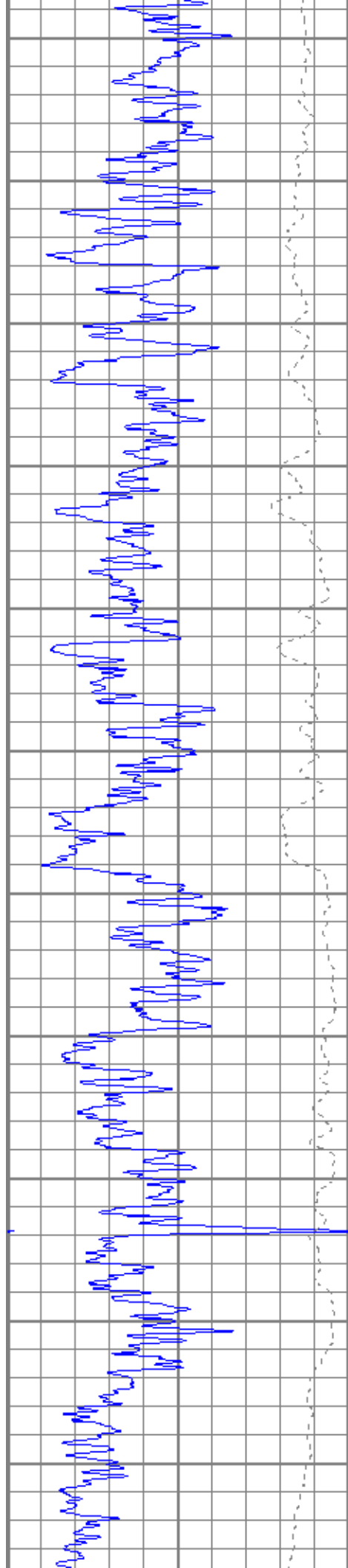
0	GR (GAPI)	150
-200	SP (mV)	0

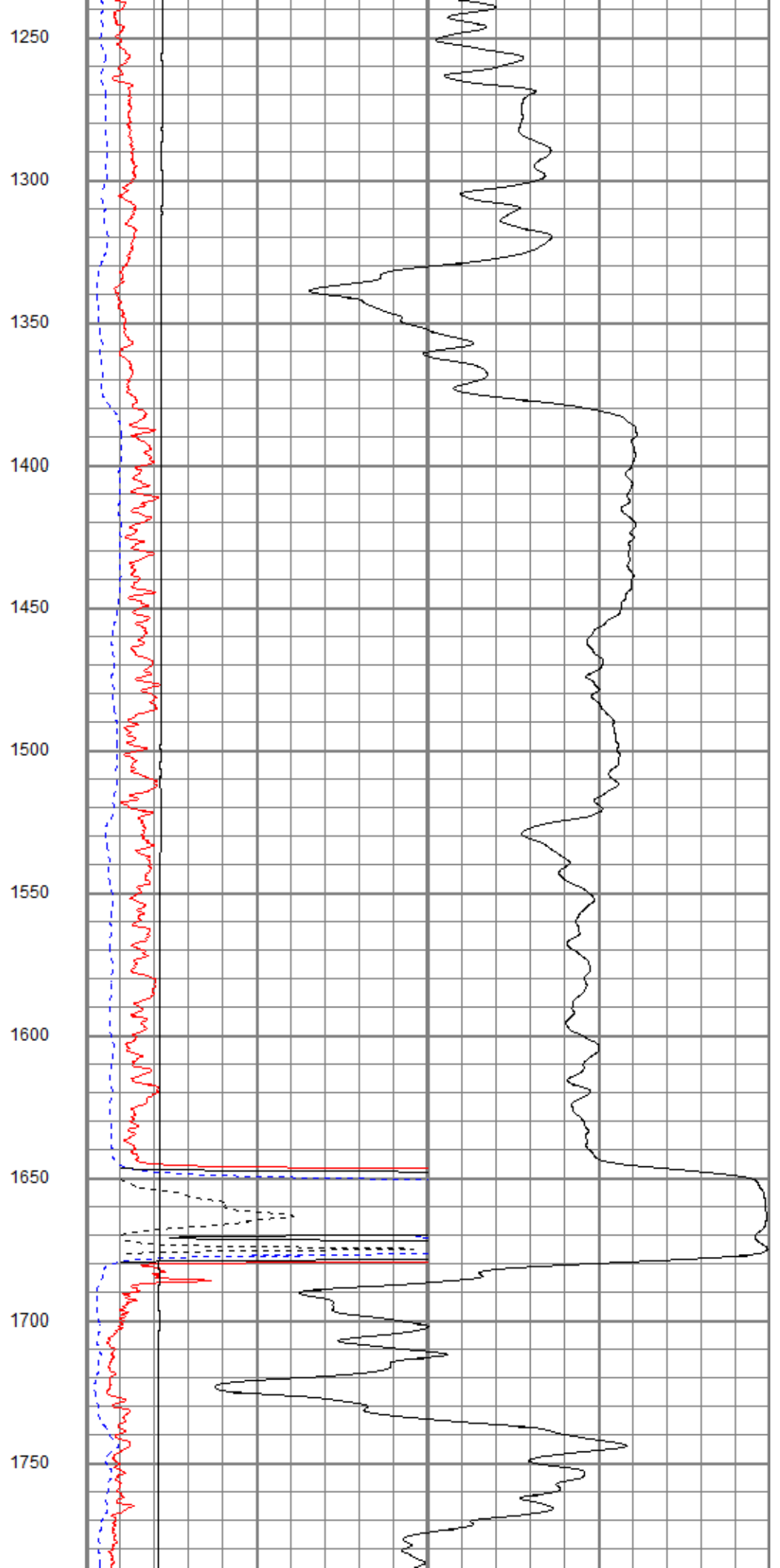
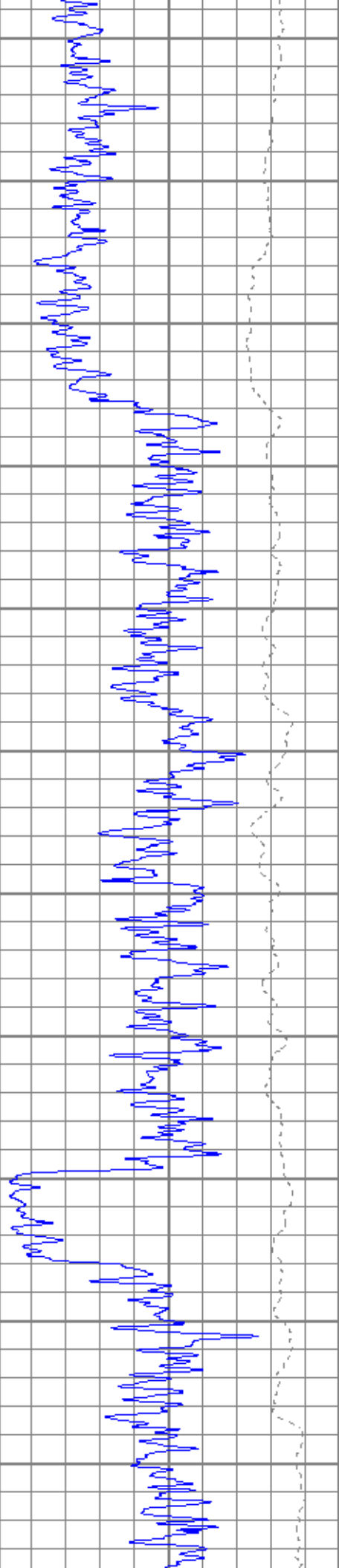
0	RILD (Ohm-m)	50
0	RLL3 (Ohm-m)	50

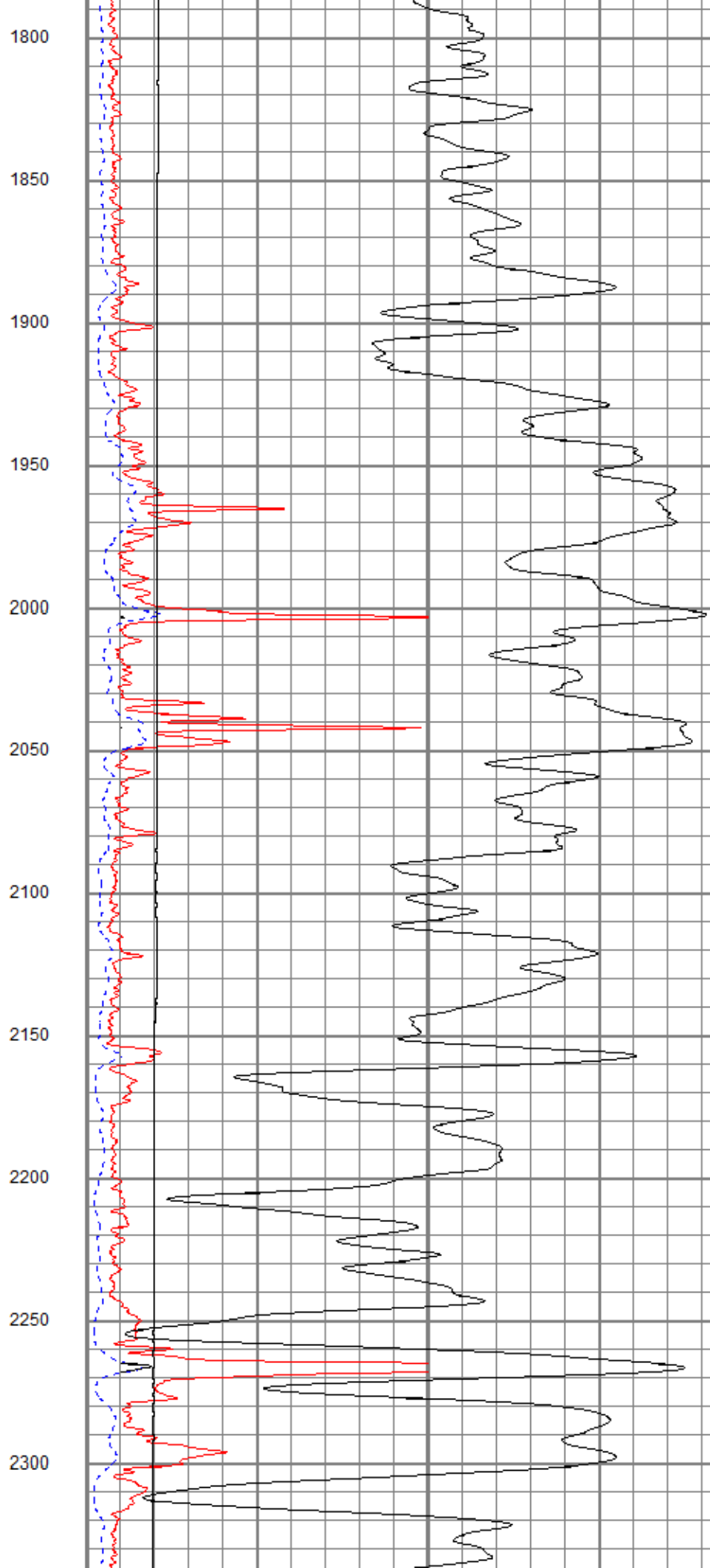
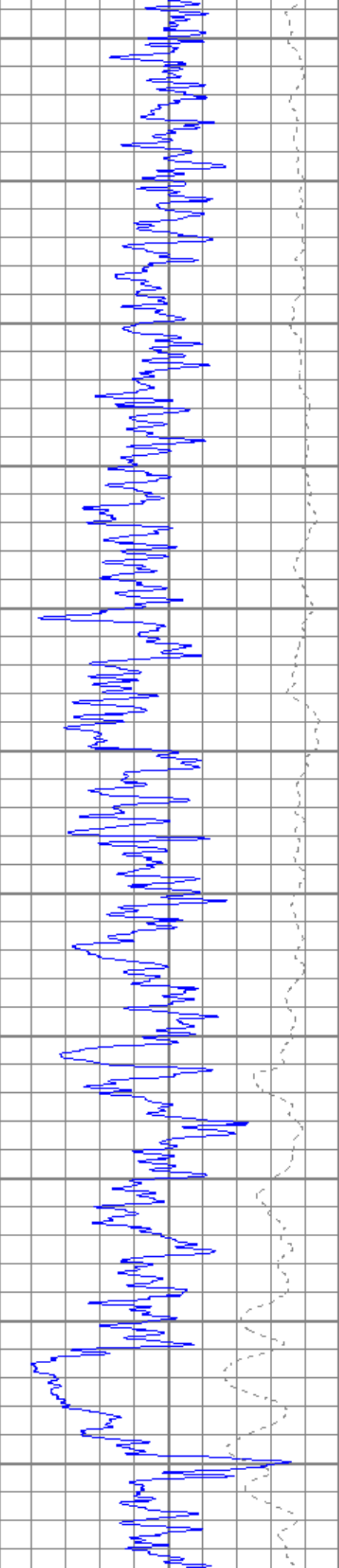
1000	CILD (mmho/m)	0
10000	LTEN (lb)	0

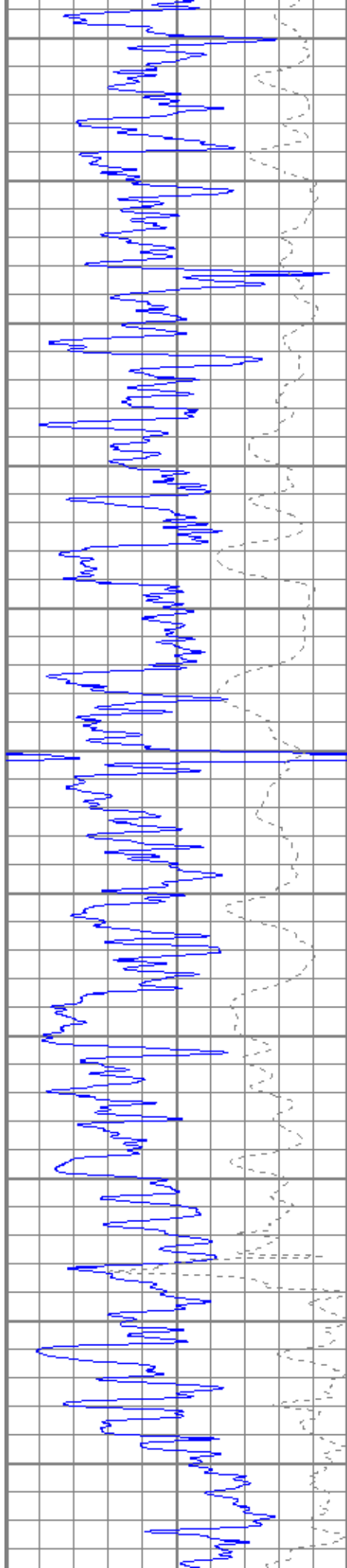
50	RILD x 10 (Ohm-m)	500
50	RLL3 x 10 (Ohm-m)	500











2350

2400

2450

2500

2550

2600

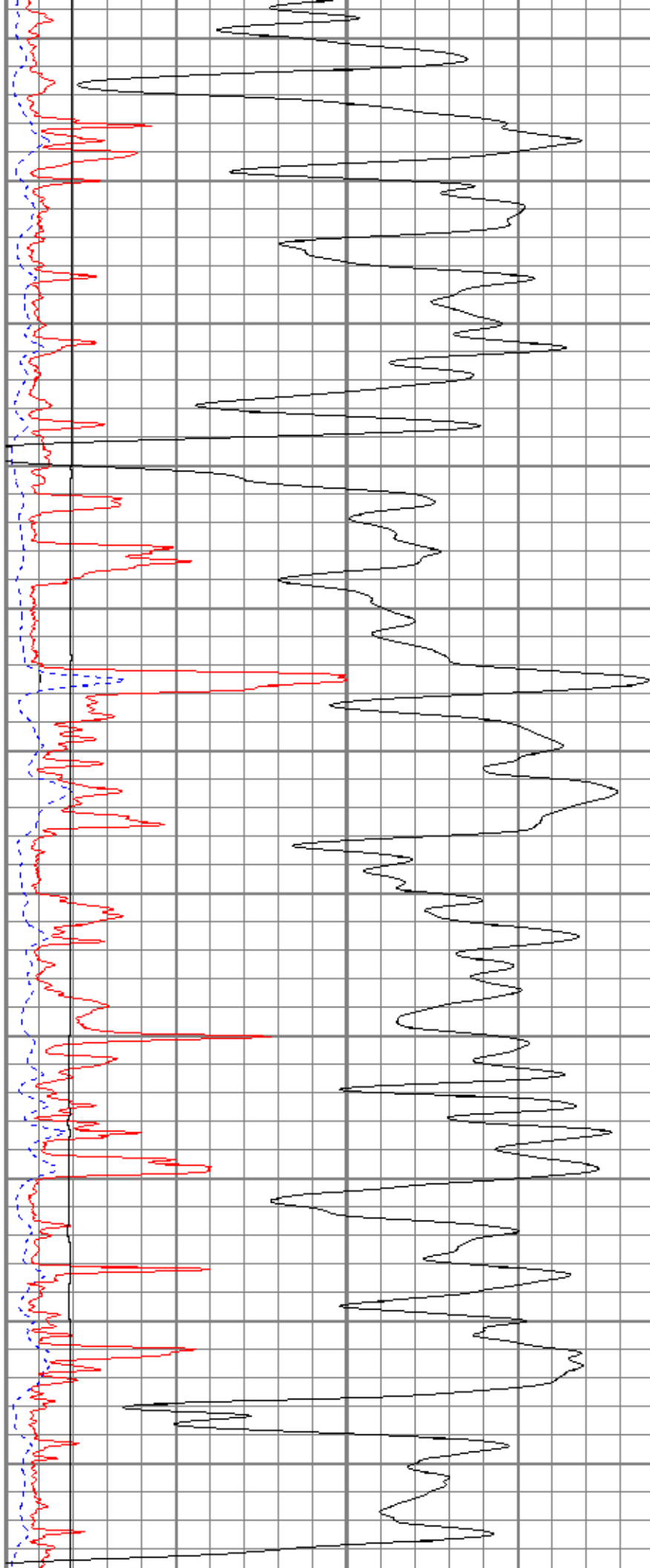
2650

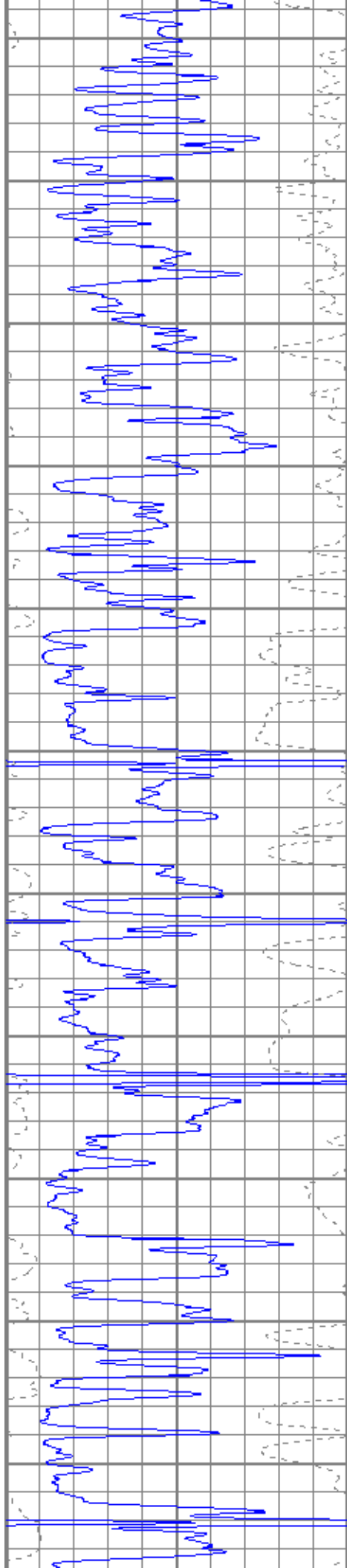
2700

2750

2800

2850





2900

2950

3000

3050

3100

3150

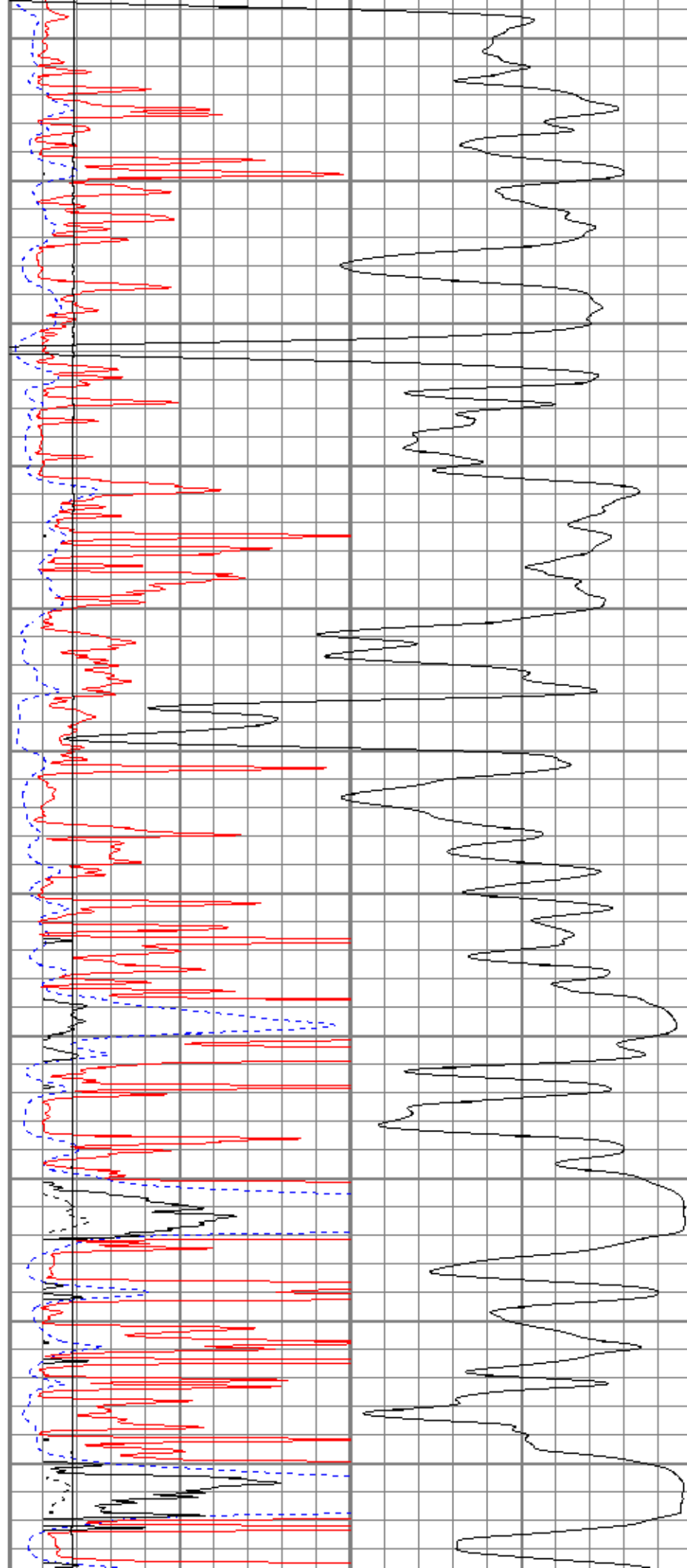
3200

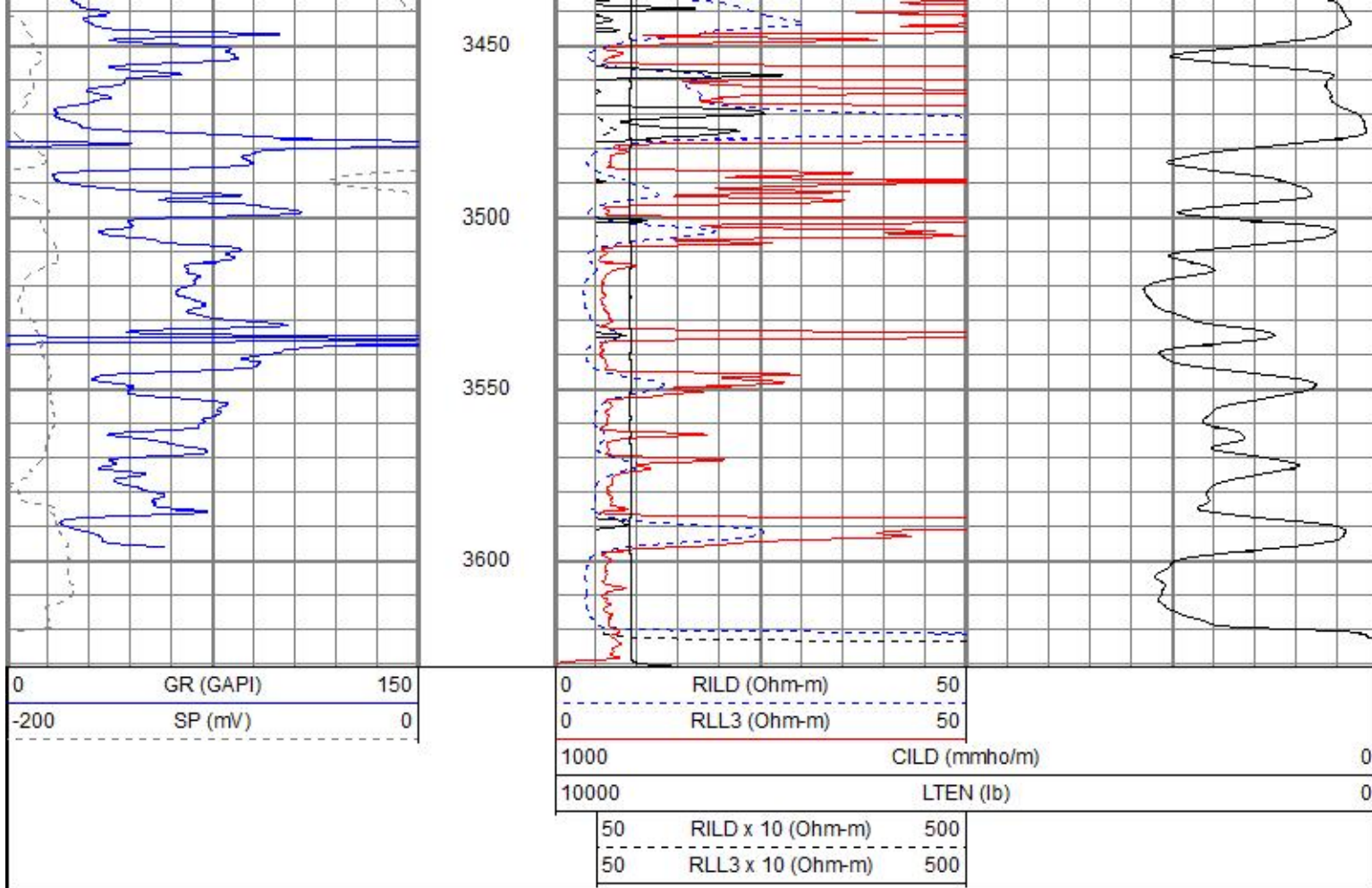
3250

3300

3350

3400

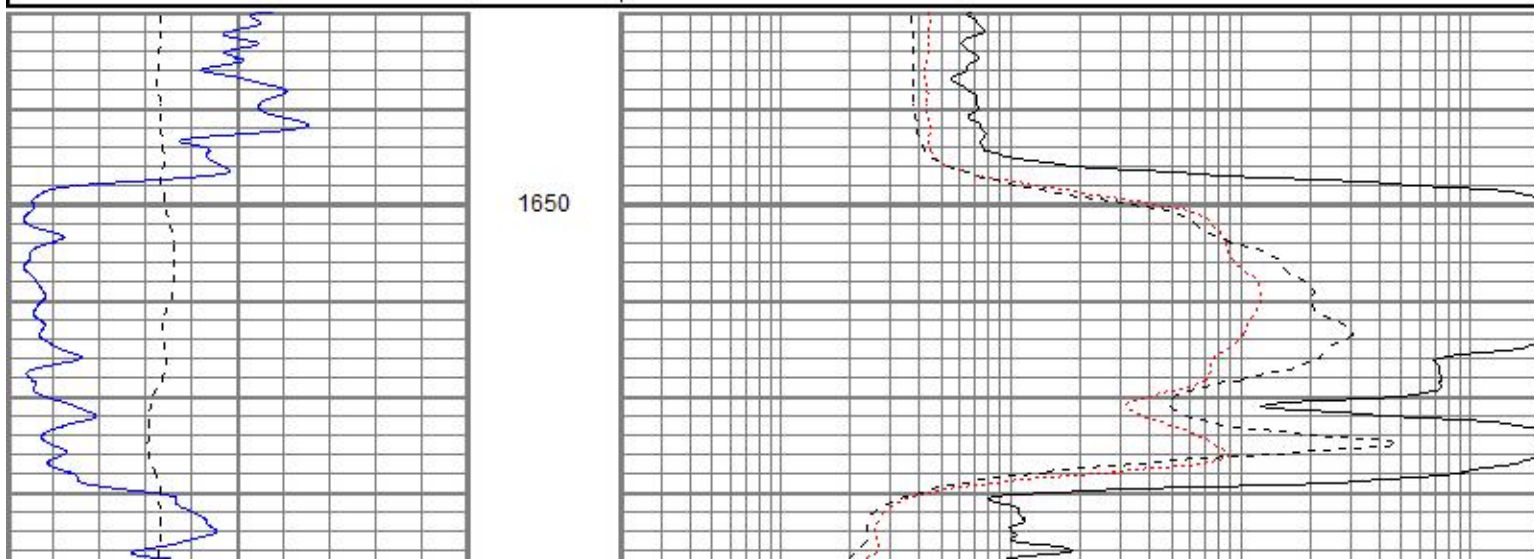




# Main Pass

Database File sekraus#3-14oh.db  
 Dataset Pathname pass2  
 Presentation Format kdil  
 Dataset Creation Thu Feb 20 01:49:24 2014  
 Charted by Depth in Feet scaled 1:240

0	GR (GAPI)	150	0.2	RILM (Ohm-m)	2000
-100	SP (mV)	100	0.2	RILD (Ohm-m)	2000
			0.2	RLL3 (Ohm-m)	2000



0	GR (GAPI)	150
-100	SP (mV)	100

0.2	RILM (Ohm-m)	2000
0.2	RILD (Ohm-m)	2000
0.2	RLL3 (Ohm-m)	2000

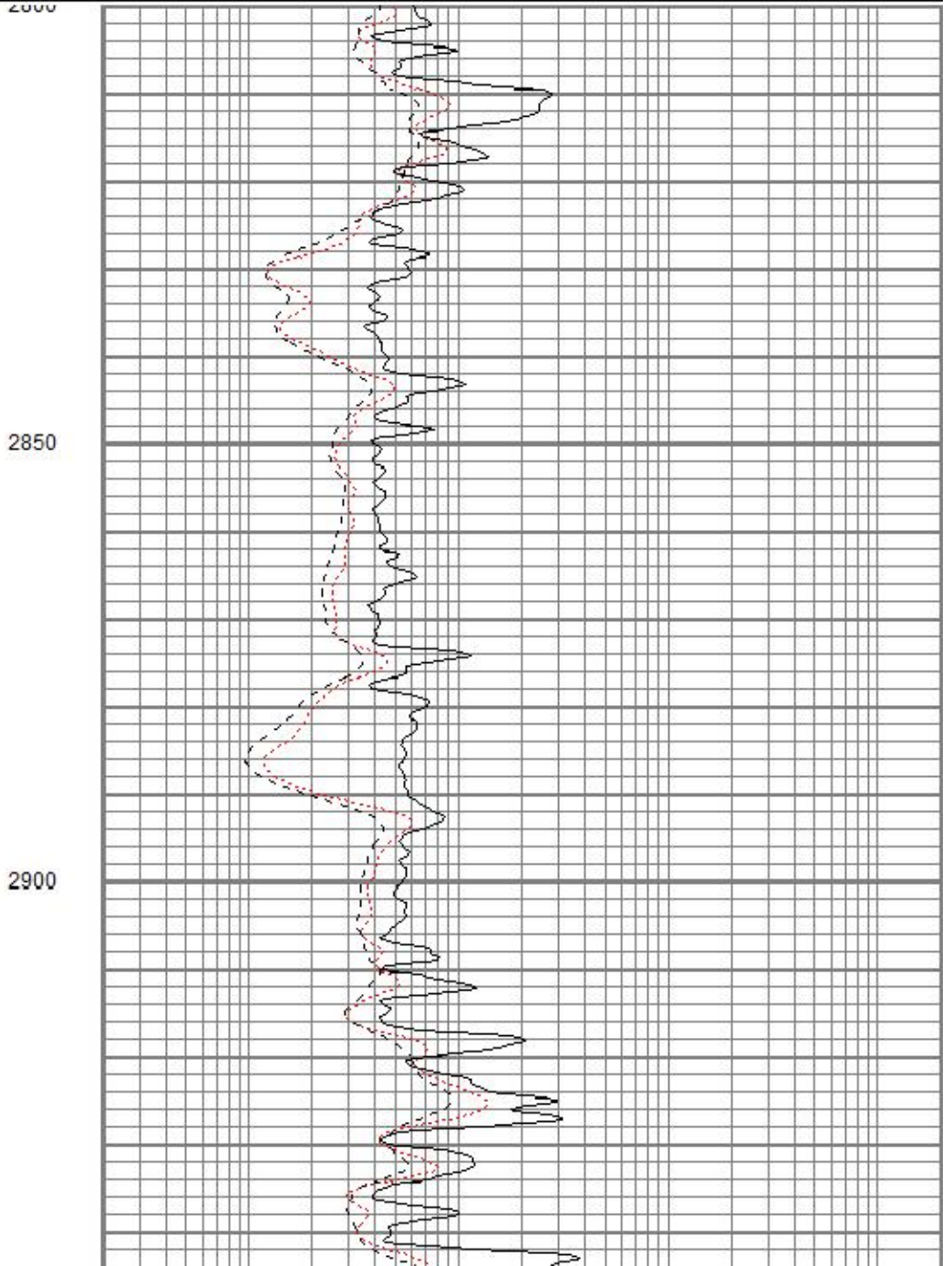
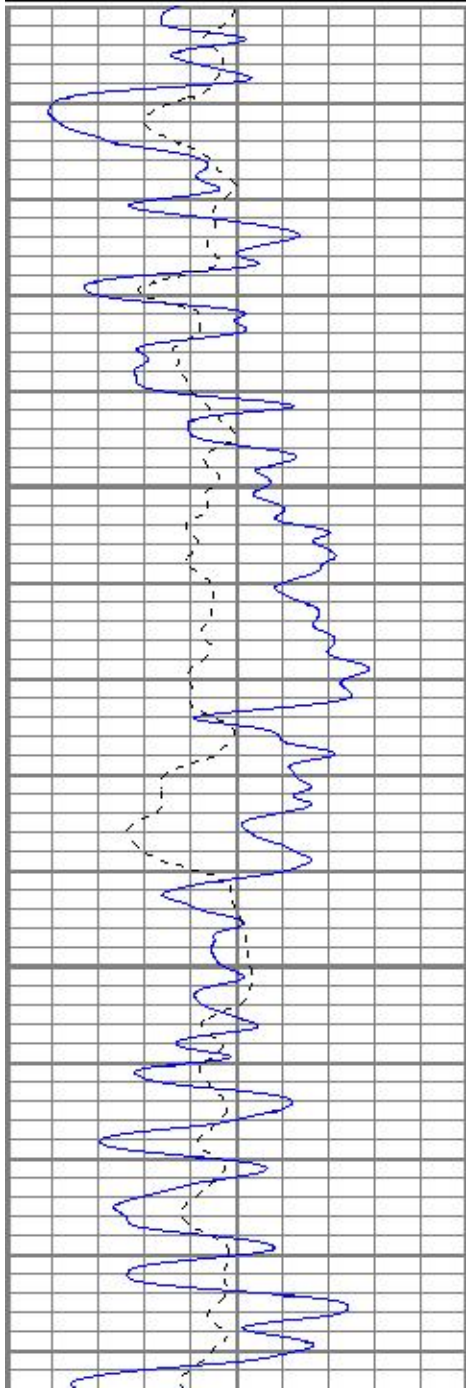


# Main Pass

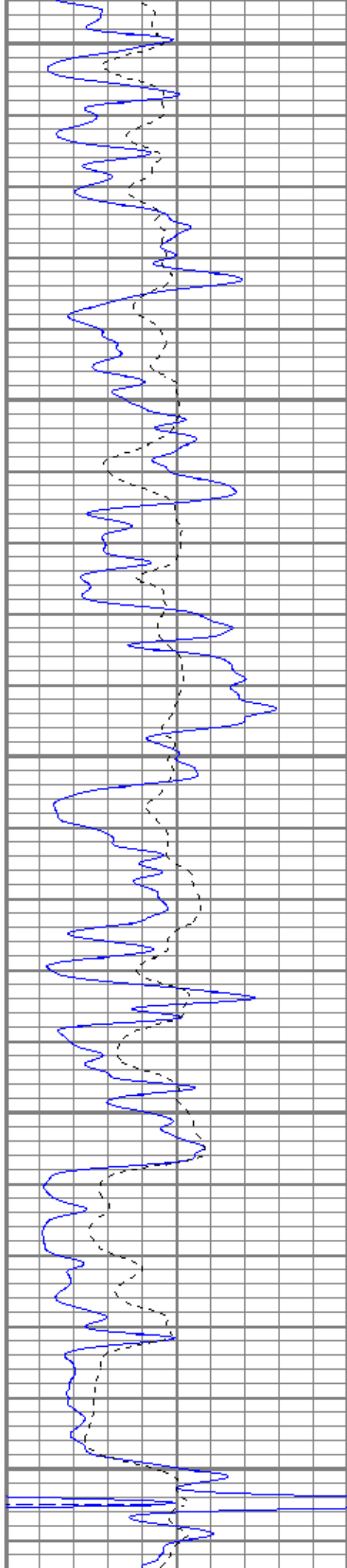
Database File sekraus#3-14oh.db  
 Dataset Pathname pass2  
 Presentation Format kdil  
 Dataset Creation Thu Feb 20 01:49:24 2014  
 Charted by Depth in Feet scaled 1:240

0	GR (GAPI)	150
-100	SP (mV)	100

0.2	RILM (Ohm-m)	2000
0.2	RILD (Ohm-m)	2000
0.2	RLL3 (Ohm-m)	2000







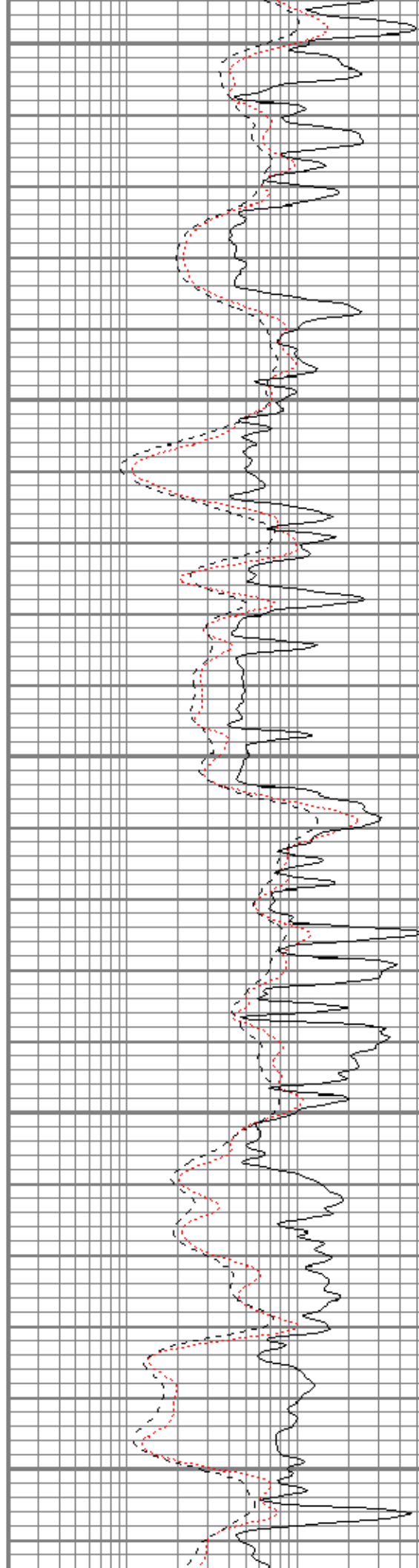
2950

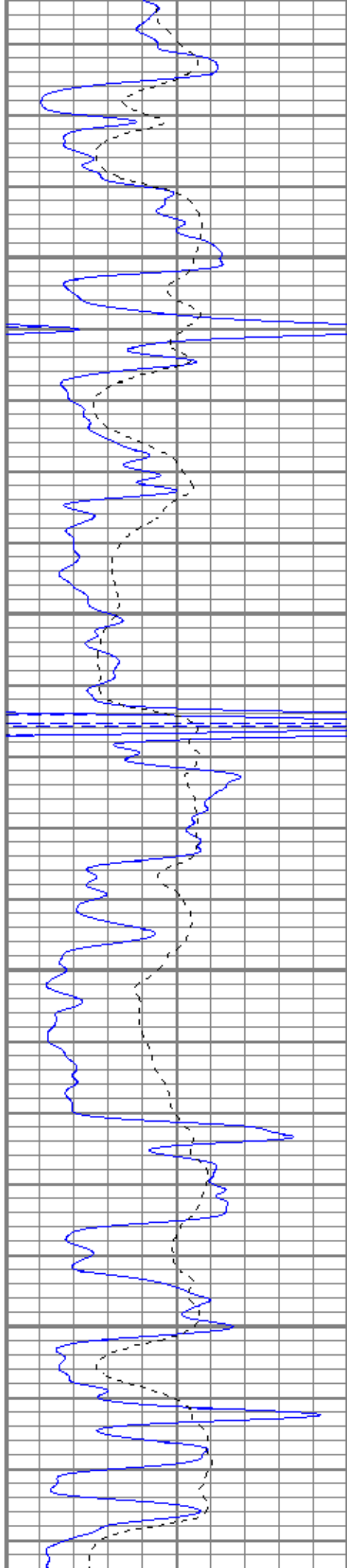
3000

3050

3100

3150



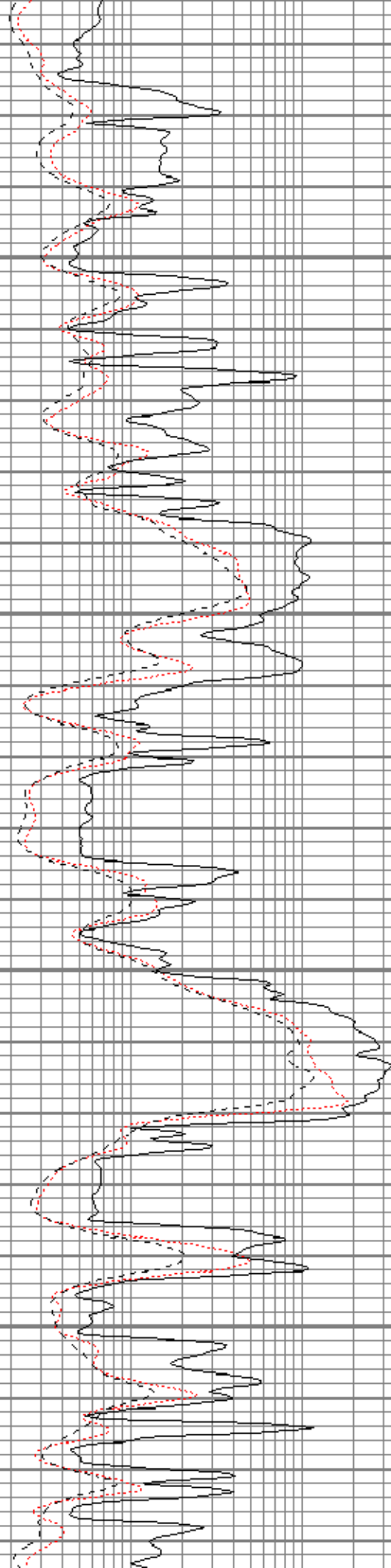


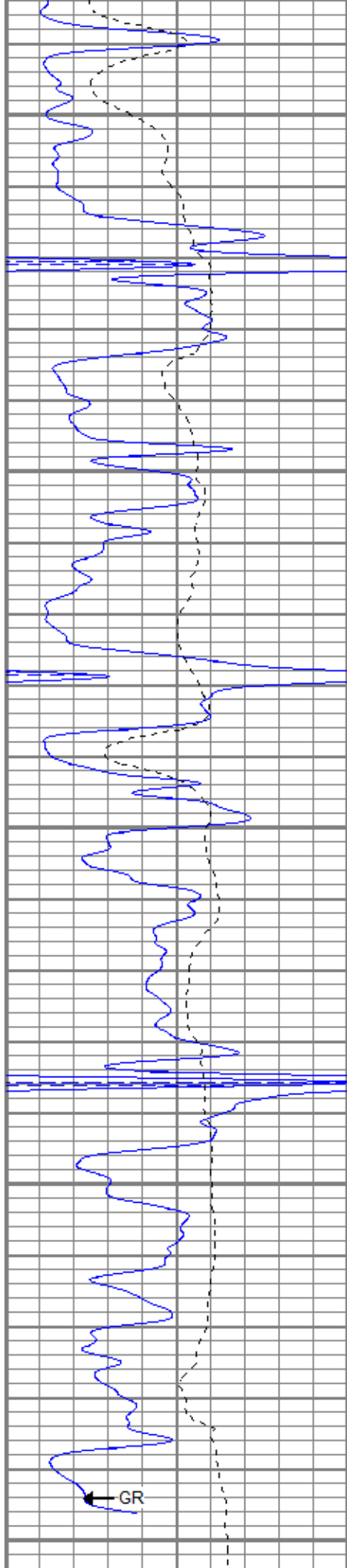
3200

3250

3300

3350





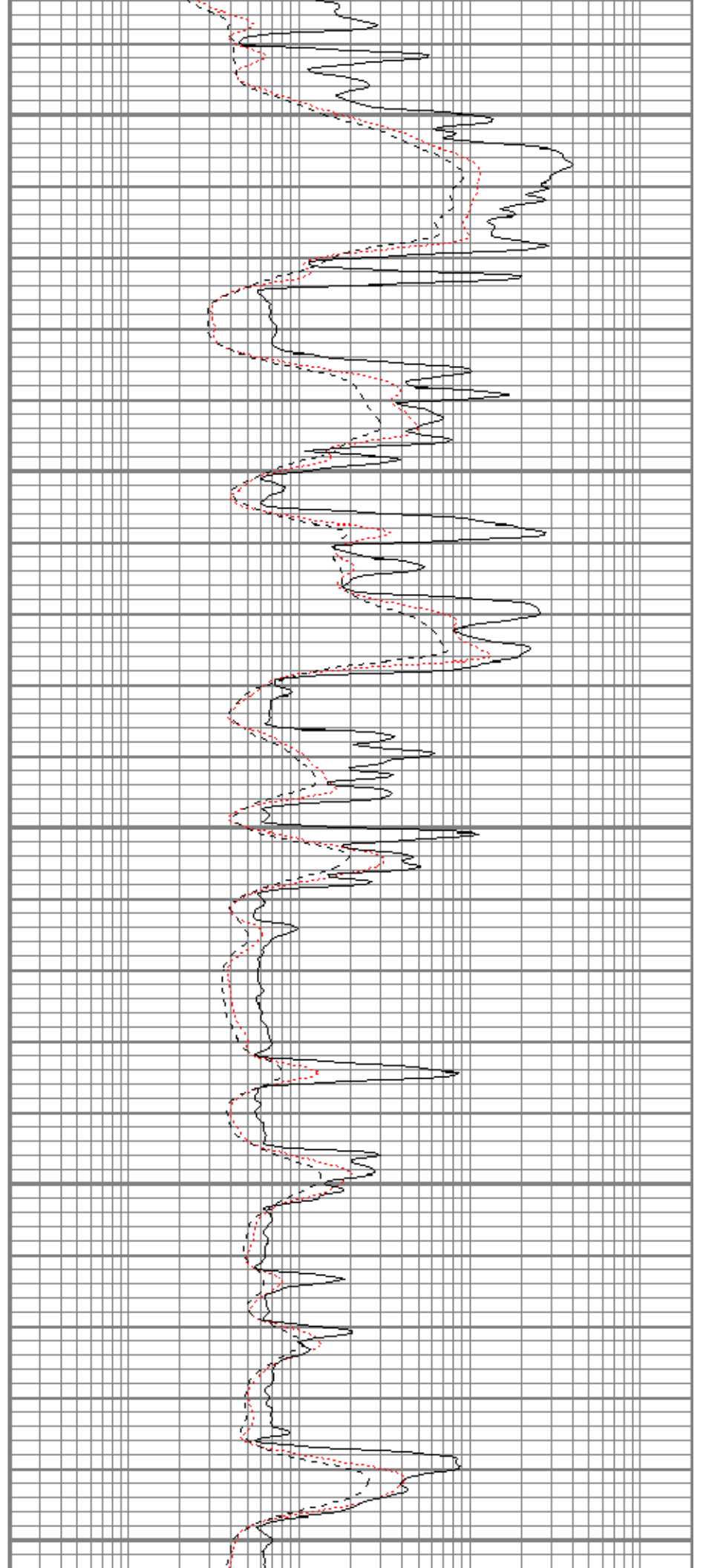
3400

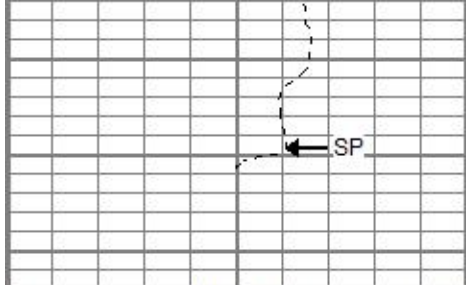
3450

3500

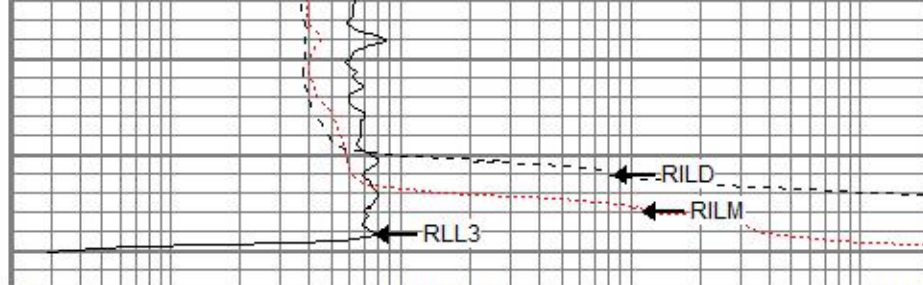
3550

3600





0	GR (GAPI)	150
-100	SP (mV)	100



0.2	RILM (Ohm-m)	2000
0.2	RILD (Ohm-m)	2000
0.2	RLL3 (Ohm-m)	2000

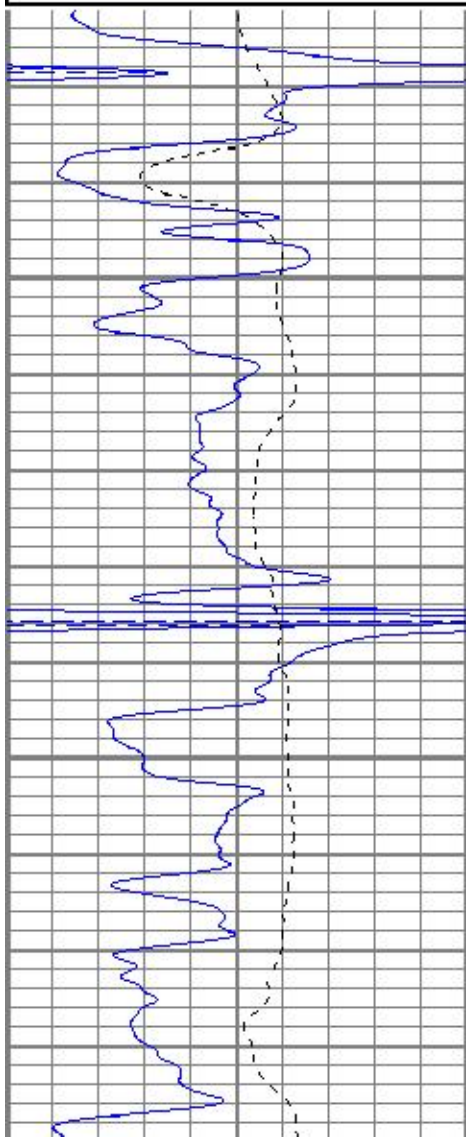


# Repeat Pass

Database File sekraus#3-14oh.db  
 Dataset Pathname pass1  
 Presentation Format kdil  
 Dataset Creation Thu Feb 20 01:42:13 2014  
 Charted by Depth in Feet scaled 1:240

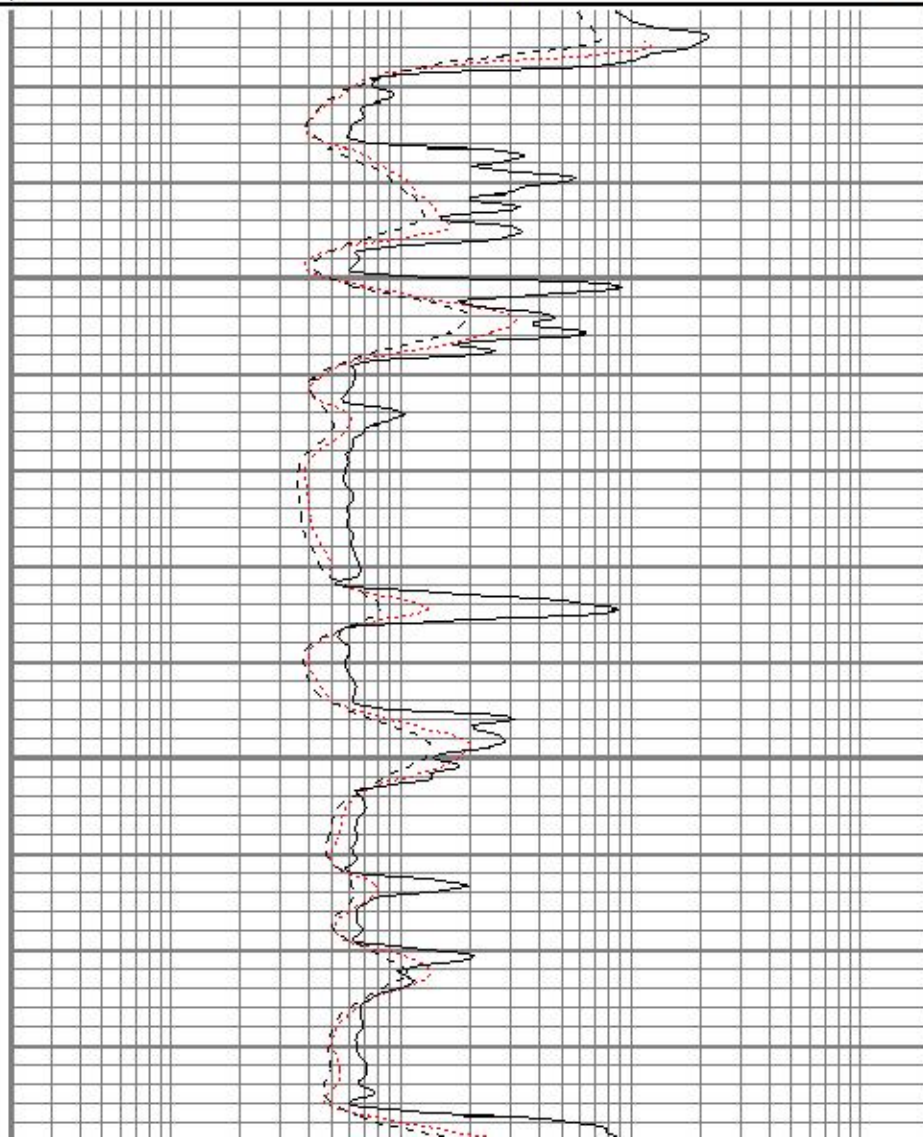
0	GR (GAPI)	150
-100	SP (mV)	100

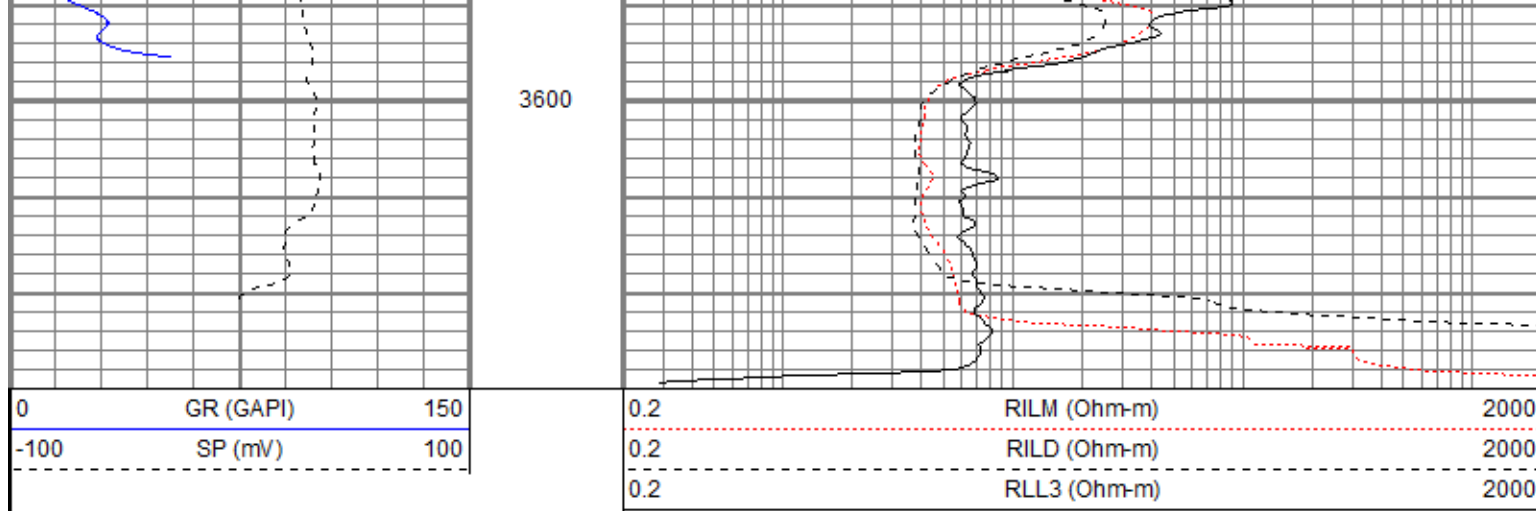
0.2	RILM (Ohm-m)	2000
0.2	RILD (Ohm-m)	2000
0.2	RLL3 (Ohm-m)	2000



3500

3550





### Calibration Report

Database File sekraus#3-14oh.db  
 Dataset Pathname pass1  
 Dataset Creation Thu Feb 20 01:42:13 2014

### Dual Induction Calibration Report

Serial-Model: 5375-G  
 Surface Cal Performed: Fri Jan 17 15:42:54 2014  
 Downhole Cal Performed: Fri Jan 17 15:43:47 2014  
 After Survey Verification Performed: Fri Jan 17 15:43:47 2014

#### Surface Calibration

Loop:	Readings				References		Results	
	Air	Loop			Air	Loop	m	b
Deep	0.006	0.643	V	0.000	350.000	mmho/m	550.194	-3.523
Medium	0.009	0.731	V	0.000	400.000	mmho/m	553.963	-4.747
Internal:	Zero	Cal		Zero	Cal		m	b
Deep	0.006	0.643	V	0.000	350.000	mmho/m	549.825	-3.433
Medium	0.009	0.730	V	0.000	550.000	mmho/m	762.575	-6.847

#### Downhole Calibration

Internal:	Readings				References		Results	
	Zero	Cal			Zero	Cal	m	b
Deep	-0.010	350.050	mmho/m	-0.087	350.148	mmho/m	1.000	-0.077
Medium	-0.030	399.577	mmho/m	0.227	399.767	mmho/m	1.000	0.257
Shallow	2.436	0.016	V	500.000	2.000	Ohm-m	205.740	0.284

#### After Survey Verification

Internal:	Readings				Targets		Results	
	Zero	Cal			Zero	Cal	m'	b'
Deep	0.000	0.000	mmho/m	-0.010	350.050	mmho/m	1.000	-0.077
Medium	0.000	0.000	mmho/m	-0.030	399.577	mmho/m	1.000	0.257
Shallow	0.000	0.000	Ohm-m	500.000	2.000	Ohm-m	1.000	0.000

### Compensated Density Calibration Report

Serial-Model: 2501DHT-DHT  
 Source / Verifier: csv-j12 /  
 Master Calibration Performed: Fri Dec 06 16:12:36 2013  
 Before Survey Verification Performed:  
 After Survey Verification Performed:

Master Calibration					
	Density		Far Detector	Near Detector	
Magnesium	1.750	g/cc	729.27	293.87	cps
Aluminum	2.660	g/cc	137.64	190.18	cps
Spine Angle = 75.37			Density/Spine Ratio = 0.528		
	Size		Reading		
Small Ring	8.10	in	6273.19		
Large Ring	14.00	in	10676.90		

Before Survey Verification					
	Target		Measured		
		g/cc			g/cc
		g/cc			g/cc
		g/cc			g/cc

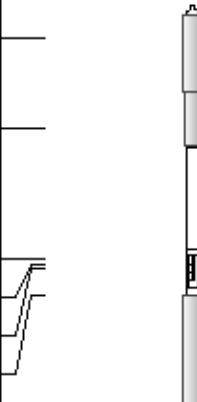
After Survey Verification					
	Target		Measured		
		g/cc			g/cc
		g/cc			g/cc
		g/cc			g/cc

**Gamma Ray Calibration Report**

Serial Number:	2001			
Tool Model:	OH			
Performed:	Fri Dec 06 16:11:56 2013			
Calibrator Value:	1.0		GAPI	
Background Reading:	0.0		cps	
Calibrator Reading:	1.0		cps	
Sensitivity:	0.2300		GAPI/cps	

**Neutron Calibration Report**

Serial Number:	5108			
Tool Model:	PROBE			
Performed:	Mon Oct 14 17:07:15 2013			
Calibrator Value:	1		NAPI	
Calibrator Reading:	1		cps	
Sensitivity:	1		NAPI/cps	

Sensor	Offset (ft)	Schematic	Description	Length (ft)	O.D. (in)	Weight (lb)
NEU	38.26		None	0.75	1.50	5.00
			NEU-PROBE (5108) Probe	4.92	3.63	85.00
GR	32.32		GR-OH (2001) 2001	3.56	3.25	40.00
			DHT (2501DHT) Digital High Temp CDL Tool	9.69	4.00	201.00
LSD	23.78					
DCAL	23.49					
SSD	23.24					
HEADVOLT	21.47					

SP	10.60		DIL-G (5375) Gearhart	21.47	4.00	345.00
CILD	10.60					
CILM	6.89					
RLL3	1.70					
Dataset: sekraus#3-14oh.db: field/well/run1/pass1 Total length: 40.39 ft Total weight: 676.00 lb O.D.: 4.00 in						



**MICRO  
RESISTIVITY  
LOG**

Company StrataKan Exploration, LLC.

Well Kraus #3-14

Field Unnamed

County Graham

State KS

Location:

API #: 15 065 24007

SEC 13 TWP 8S RGE 22W

Permanent Datum Ground Level Elevation 2077'

Log Measured From KB 7' AGL

Drilling Measured From KB

Other Services  
CDNL  
DIL

Elevation  
K.B. 2084'  
D.F. 2083'  
G.L. 2077'

Date 2-20-14

Run Number Two

Depth Driller 3634'

Depth Logger 3630'

Bottom Logged Interval 3628'

Top Log Interval 2800'

Casing Driller 261'

Casing Logger 261'

Bit Size 7 7/8"

Type Fluid in Hole Chemical Mud

Density / Viscosity 9.3/48

PH / Fluid Loss 10/8.4

Source of Sample Pit

Rm @ Meas. Temp 1.1@58degf

Rmf @ Meas. Temp .66@58degf

Rmc @ Meas. Temp 1@58degf

Source of Rmf / Rmc Calculated

Rm @ BHT .57@112degf

Time Circulation Stopped 11:30 p.m.

Time Logger on Bottom 2:50 a.m.

Maximum Recorded Temperature 112 degf

Equipment Number T127

Location Hays, KS.

Recorded By Gus Pfanenstiel

Witnessed By Mr. Pat Balhazor

Mr. Justin Prater

<<< Fold Here >>>

All interpretations are opinions based on inferences from electrical or other measurements and we cannot and do not guarantee the accuracy or correctness of any interpretation, and we shall not, except in the case of gross or willful negligence on our part, 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. These interpretations are also subject to our general terms and conditions set out in our current Price Schedule.

**Comments**

Thank you for using Gemini Wireline  
785-625-1182



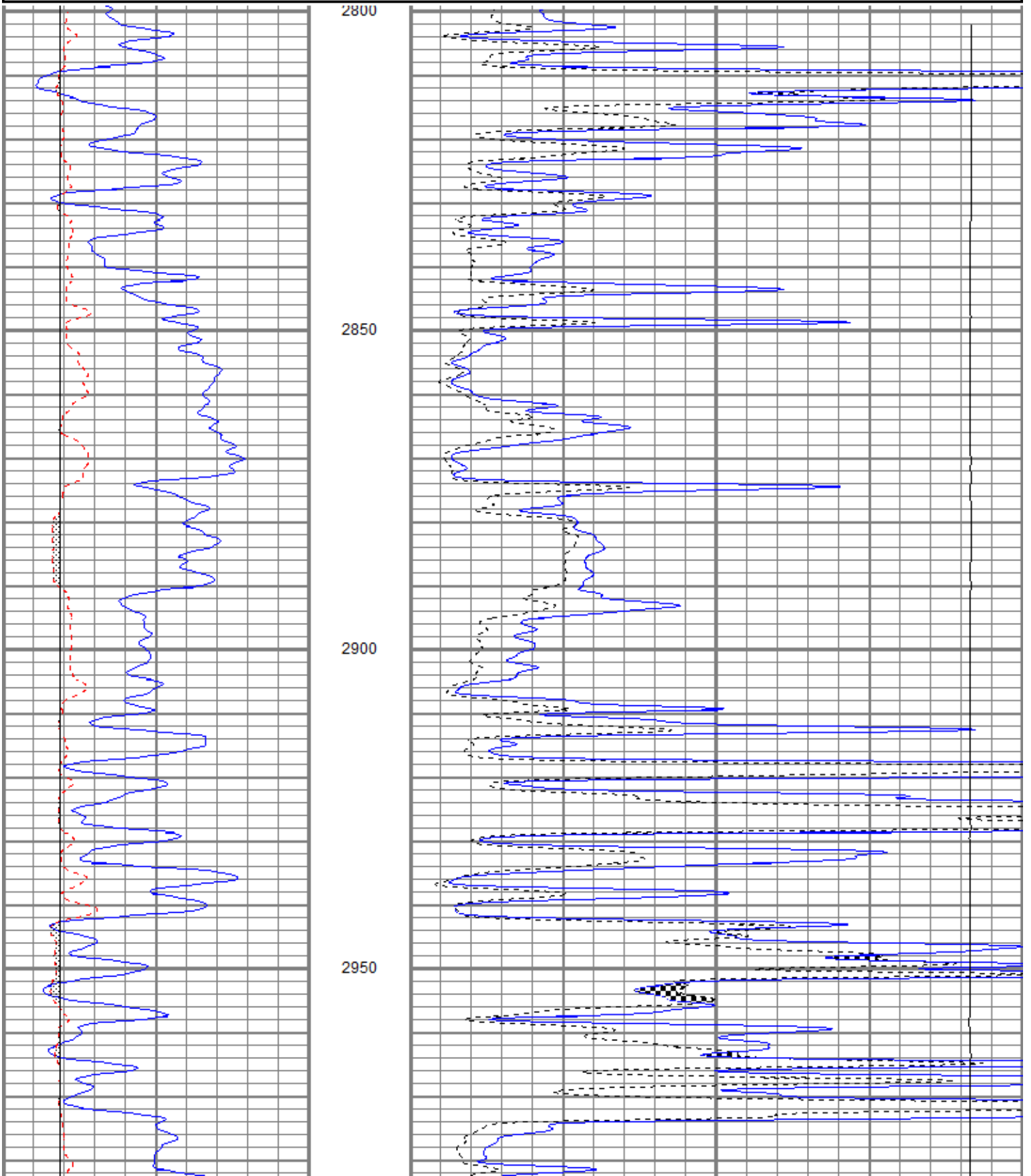
**Main Pass**

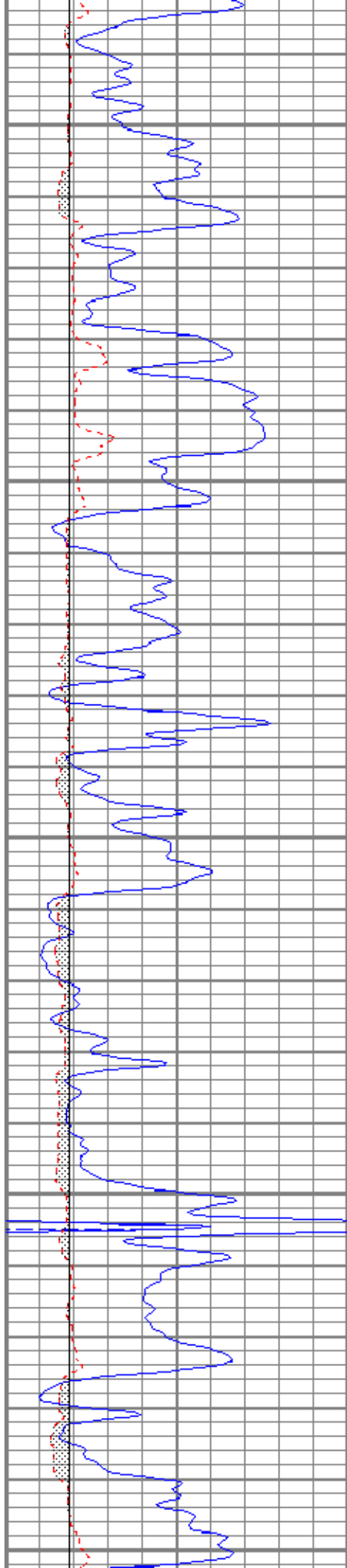


Database File sekraus#3-14oh.db  
 Dataset Pathname pass4  
 Presentation Format kml  
 Dataset Creation Thu Feb 20 03:03:13 2014  
 Charted by Depth in Feet scaled 1:240

0	GR (GAPI)	150
6	MCAL (in)	16
6	BOREID (in)	16

0	MN 2" (Ohm-m)	20
0	MI 1" (Ohm-m)	20
10000	LTEN (lb)	0





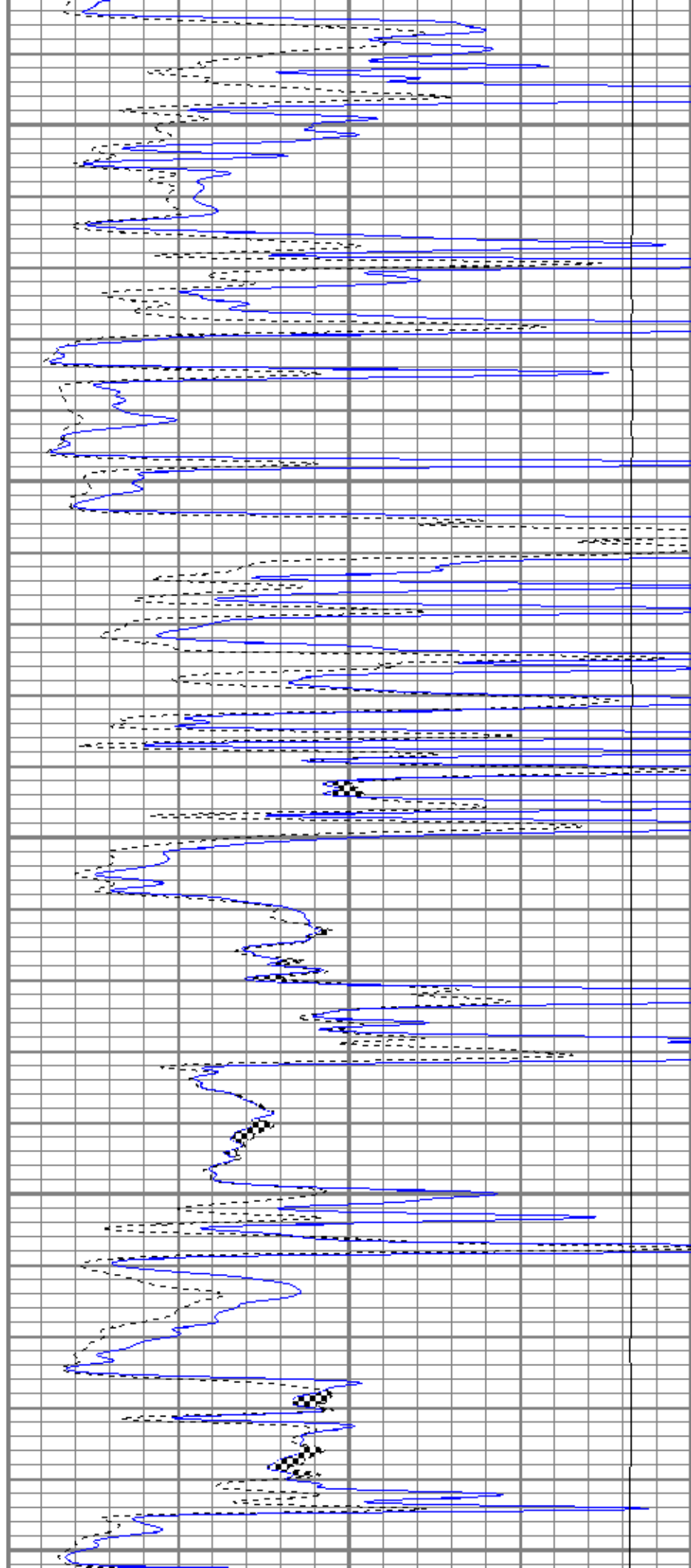
3000

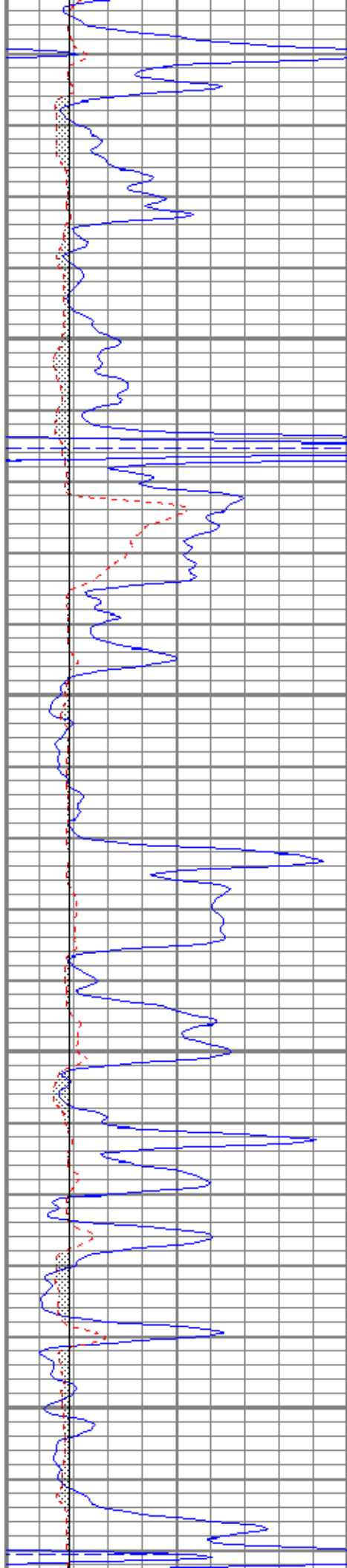
3050

3100

3150

3200



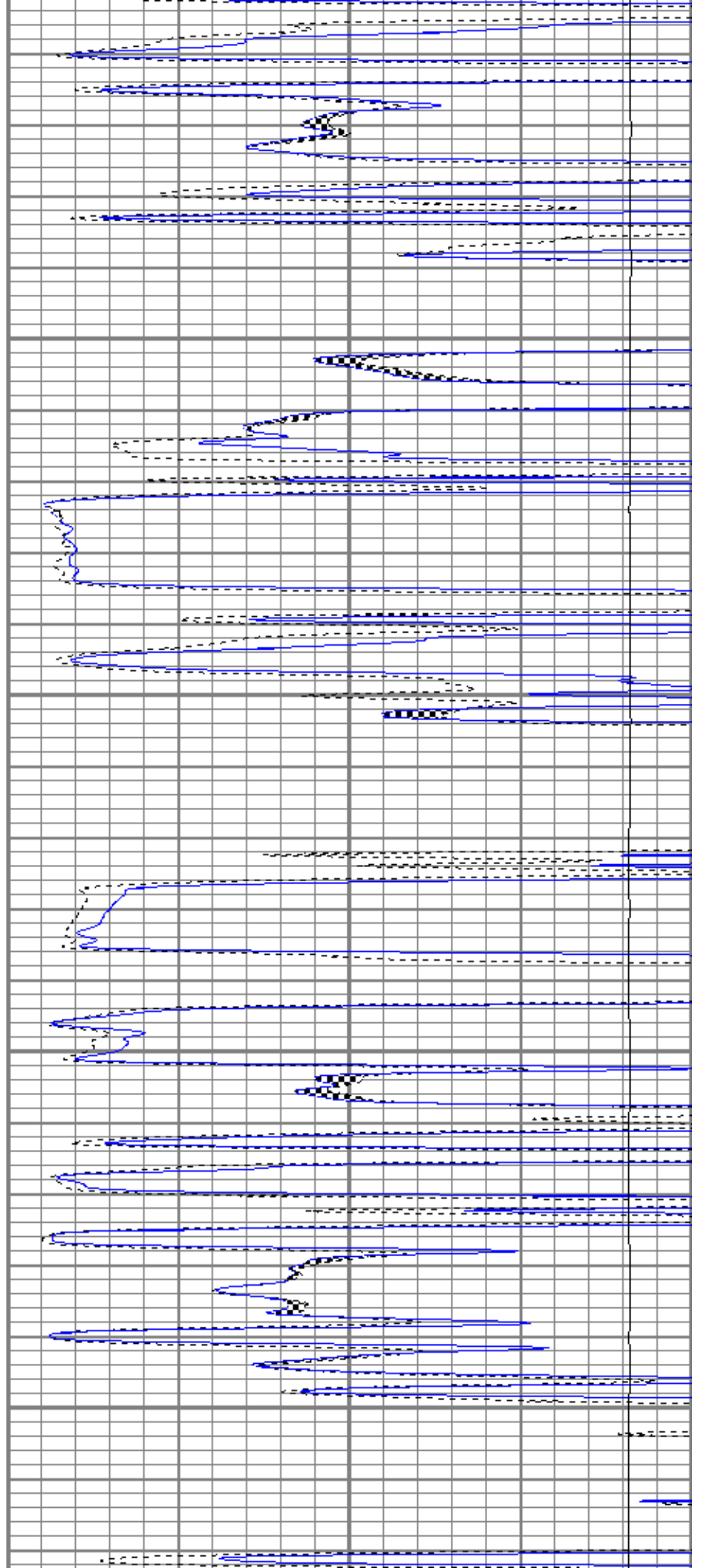


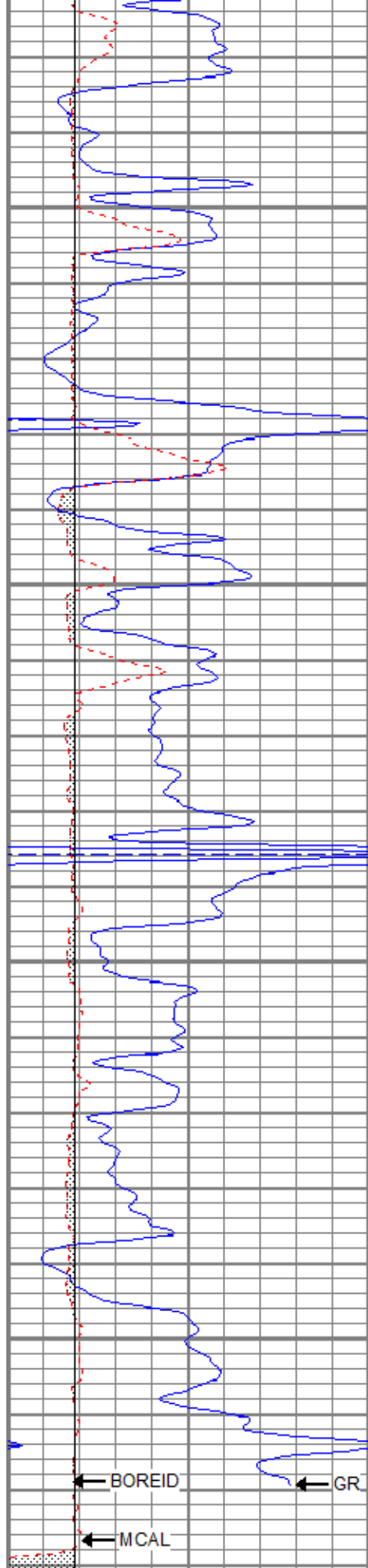
3250

3300

3350

3400





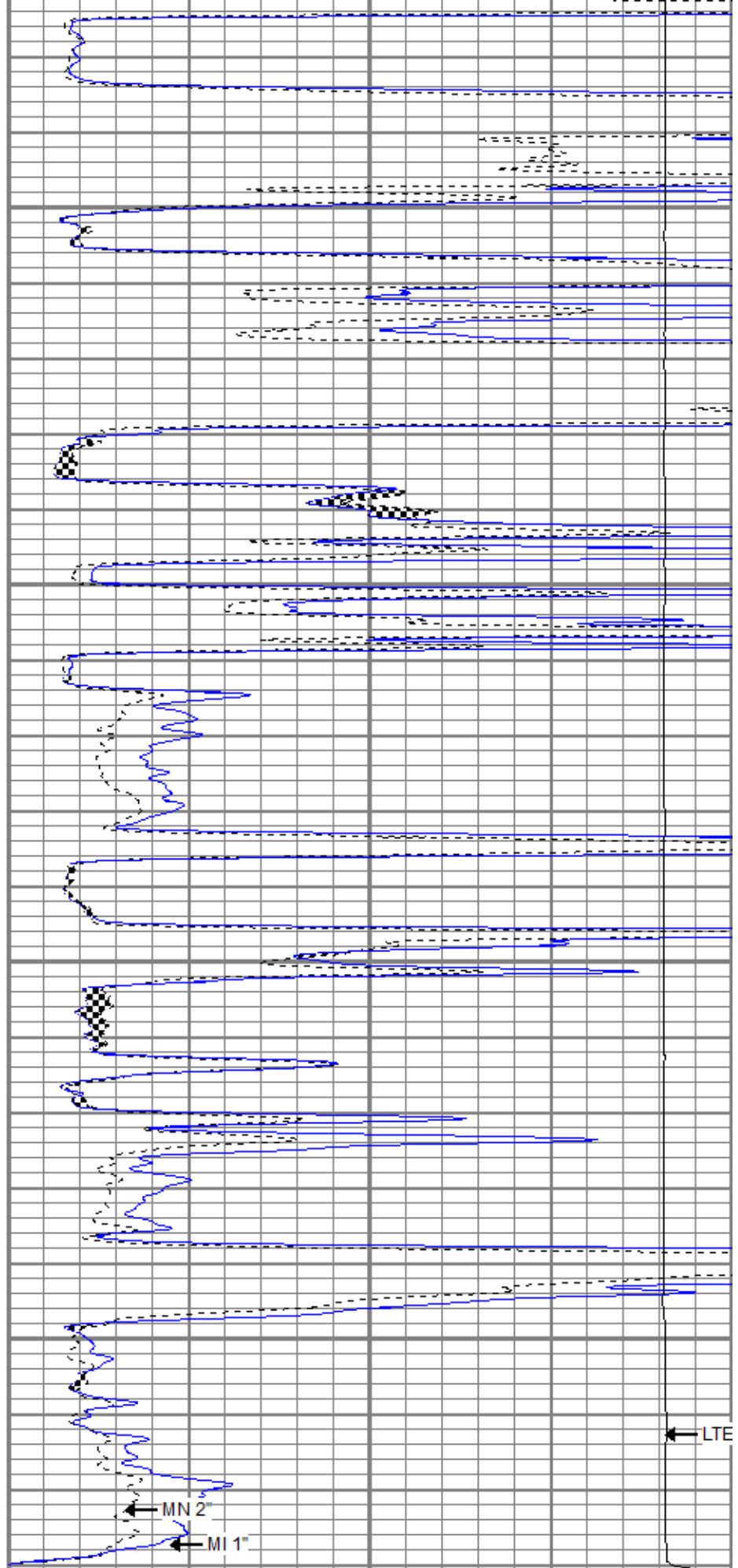
3450

3500

3550

3600

← BOREID  
← MCAL  
← GR



← MN 2"  
← MI 1"  
← LTE

0	GR (GAPI)	150
6	MCAL (in)	16
6	BOREID (in)	16

0	MN 2" (Ohm-m)	20
0	MI 1" (Ohm-m)	20
10000	LTEN (lb)	0

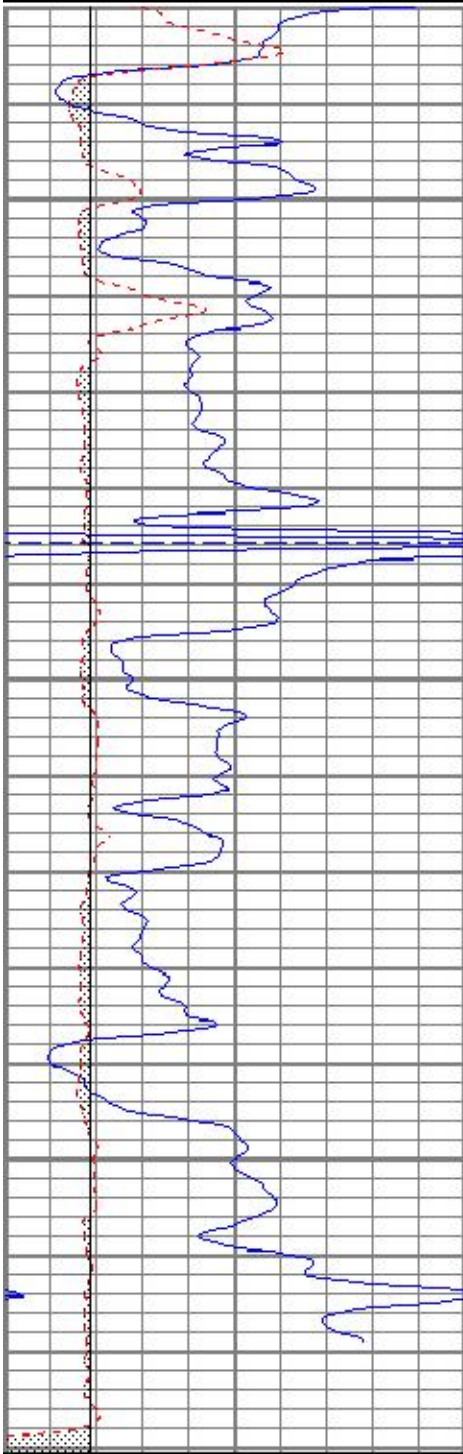


# Repeat Pass

Database File sekraus#3-14oh.db  
 Dataset Pathname pass3.1  
 Presentation Format kml  
 Dataset Creation Thu Feb 20 03:19:35 2014  
 Charted by Depth in Feet scaled 1:240

0	GR (GAPI)	150
6	MCAL (in)	16
6	BOREID (in)	16

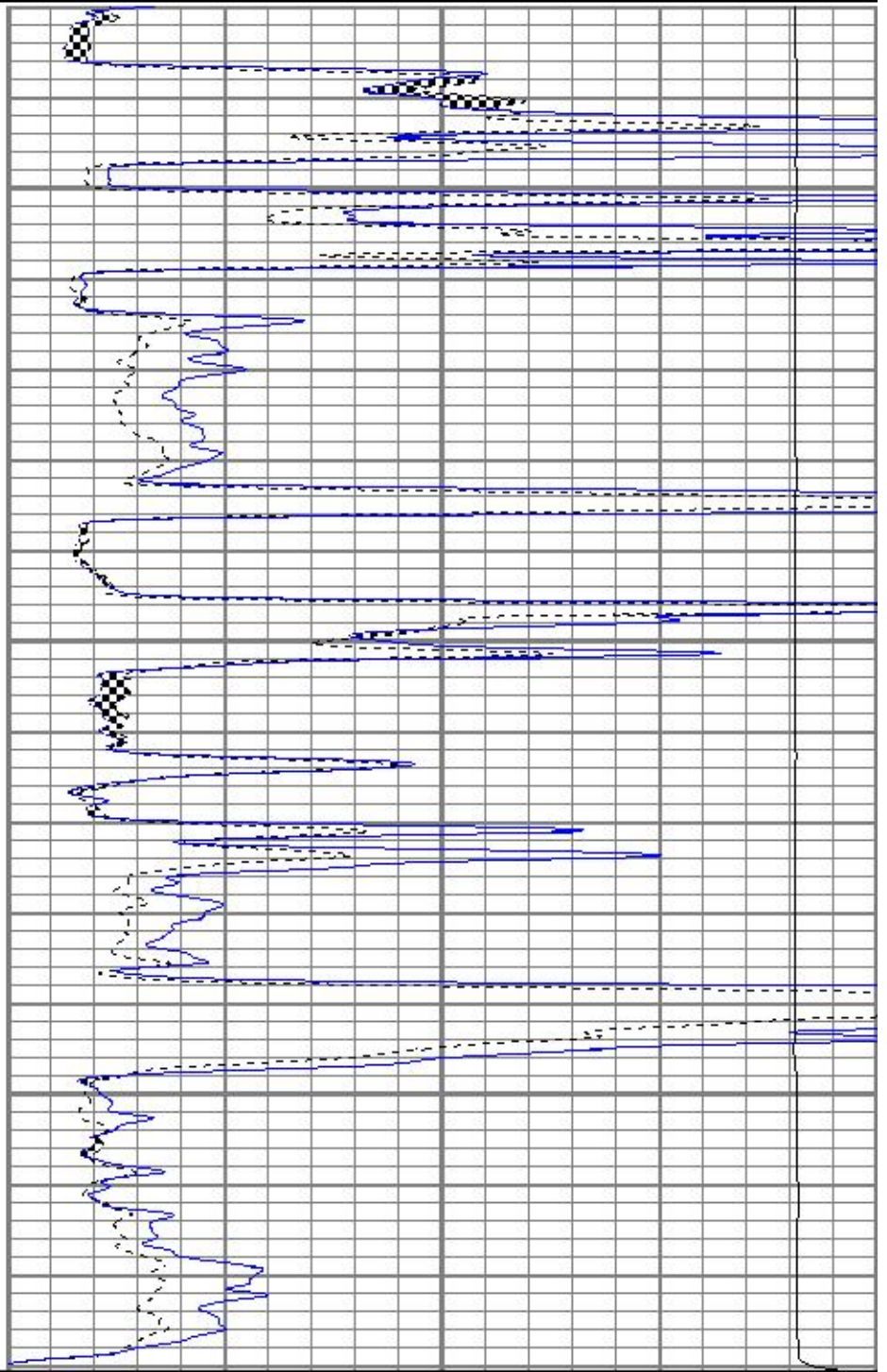
0	MN 2" (Ohm-m)	20
0	MI 1" (Ohm-m)	20
10000	LTEN (lb)	0



3500

3550

3600



0	GR (GAPI)	150
6	MCAL (in)	16
6	BOREID (in)	16

0	MN 2" (Ohm-m)	20
0	MI 1" (Ohm-m)	20
10000	LTEN (lb)	0

Calibration Report	
Database File	sekraus#3-14oh.db
Dataset Pathname	pass3.1
Dataset Creation	Thu Feb 20 03:19:35 2014

**Microlog Calibration Report**

Serial-Model:	012-Pengo
Performed:	Thu Feb 20 02:55:05 2014

	Readings			References			Results	
	Zero	Cal		Zero	Cal		m	b
Normal	0.0052	0.4351	V	0.0000	10.0000	Ohm-m	23.2622	-0.1215
Inverse	0.0064	0.5620	V	0.0000	9.4000	Ohm-m	16.9191	-0.1087
Caliper	2.6540	5.4386	V	7.0000	14.0000	in	2.5138	0.3282

**Gamma Ray Calibration Report**

Serial Number:	2000
Tool Model:	P2000
Performed:	Fri Nov 01 23:01:15 2013
Calibrator Value:	1.0 GAPI
Background Reading:	0.0 cps
Calibrator Reading:	1.0 cps
Sensitivity:	0.2200 GAPI/cps

Sensor	Offset (ft)	Schematic	Description	Length (ft)	O.D. (in)	Weight (lb)	
GR	8.38		GR-P2000 (2000)	3.67	3.25	40.00	
MCAL	1.30		ML-Pengo (012)	6.97	3.50	100.00	
MI	1.30						
MN	1.30						

Dataset:	sekraus#3-14oh.db: field/well/run1/pass3.1
Total length:	10.63 ft
Total weight:	140.00 lb
O.D.:	3.50 in

Conservation Division  
Finney State Office Building  
130 S. Market, Rm. 2078  
Wichita, KS 67202-3802



Phone: 316-337-6200  
Fax: 316-337-6211  
<http://kcc.ks.gov/>

Shari Feist Albrecht, Chair  
Jay Scott Emler, Commissioner  
Pat Apple, Commissioner

Sam Brownback, Governor

August 12, 2014

Justin Prater  
StrataKan Exploration, LLC  
204 W. MILL ST.  
PLAINVILLE, KS 67663

Re: ACO-1  
API 15-065-24007-00-00  
Kraus 3-14  
NW/4 Sec.13-08S-22W  
Graham County, Kansas

Dear Justin Prater :

K.A.R. 82-3-107 provides for all completion information to be filed within 120 days of the spud date. Subsection(e)(2) of that regulation states "All rights to confidentiality shall be lost if the filings are not timely."

The above referenced well was spudded on 2/11/2014 and the ACO-1 was received on July 29, 2014 (not within the 120 days timely requirement).

Therefore, your request for confidential treatment of data contained within the ACO-1 filing cannot be granted at this time.

If you should have any questions, please do not hesitate to contact me at (316)337-6200.

Sincerely,

Production Department