

Confidentiality Requested:

Yes No

KANSAS CORPORATION COMMISSION 1362985
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: _____

1362985



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 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				

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

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> <input type="checkbox"/> Other <i>(Specify)</i> _____	PRODUCTION INTERVAL: _____ _____
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PIONEER
Pioneer Energy Services

**DUAL INDUCTION
LOG**

Company **STRATAKAN EXPLORATION, LLC**
Well **SEWARD SW #1-1**
Field **CURTIS**
County **STAFFORD** State **KANSAS**

Location: **API #: 15-185-23983-00-00**
1613' FSL & 405' FEL
SEC 1 TWP 22S RGE 14W
Permanent Datum **GROUND LEVEL** Elevation **1912'**
Log Measured From **KELLY BUSHING**
Drilling Measured From **KELLY BUSHING**
Other Services
**CNL/CDL
MEL**

Date	3/31/2017
Run Number	ONE
Depth Driller	3800'
Depth Logger	3793'
Bottom Logged Interval	3792'
Top Log Interval	400'
Casing Driller	8.625" @ 404'
Casing Logger	400'
Bit Size	7.875"
Type Fluid in Hole	CHEMICAL
Salinity, ppm CL	9000
Density / Viscosity	9.2 63
pH / Fluid Loss	8.5 15
Source of Sample	FLOWLINE
Rm @ Meas. Temp	0.70 @ 62
Rmt @ Meas. Temp	0.53 @ 62
Rmc @ Meas. Temp	0.95 @ 62
Source of Rmf / Rmc	CHARTS
Rm @ BHT	0.38 @ 114
Operating Rig Time	3 HOURS
Max Rec. Temp. F	114
Equipment Number	91
Location	COLBY
Recorded By	D. SCHMIDT
Witnessed By	JUSTIN PRATER

<<< Fold Here >>>

All interpretations are opinions based on inferences from electrical or other measurements and Pioneer Wireline Services, LLC cannot and does not guarantee the accuracy or correctness of any interpretation, and Pioneer 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.

GREAT BEND,
SOUTH TO HWY 19, 3 WEST TO 30 RD, 1/4 NORTH,
WEST INTO

Log Measured From: **KELLY BUSHING** 11 Ft. Above Permanent Datum

THANK YOU FOR USING PIONEER ENERGY SERVICES
www.pioneerenergy.com 785-625-3858

Your Pioneer Energy Services Crew	This Log Record Was Witnessed By
Engineer: D. SCHMIDT	Primary Witness: JUSTIN PRATER
Operator:	Secondary Witness:
Operator:	Secondary Witness:
Operator:	Secondary Witness:

Top - Bottom

A	BOREID in	BOTTEMP degF	CASEOD in	CASETHCK in	FLUIDDEN g/cc	M	MATRXDEN g/cc
1	7.875	114	5.5	0	1	2	2.71
NPORSEL	PERFS	SNDERR mmho/m	SNDERRM mmho/m	SPSHIFT mV	SRFTEMP degF	SZCOR	TDEPTH ft
Limestone	0	0	0	145	0	Off	3793

Sensor	Offset (ft)	Schematic	Description	Length (ft)	O.D. (in)	Weight (lb)
GR	40.58		GR-M&W (89)	3.00	3.50	50.00
CNLSC CNSSC	37.48 36.73		CNT-M&W (207-MW)	5.50	3.50	100.00
LSD DCAL SSD	28.43 28.42 27.93		CDL-M&W (90-1031)	8.50	4.00	250.00
MCAL MI MN	19.83 19.83 19.83		ML-PSIML (PSI-01) GO Micro log tools converted to Simplec electronics	7.58	4.00	65.00
RLL3F RLL3	15.80 15.80					

CILD 8.00

CILM 4.70

SP 0.20

DIL-M&W (PSI 13)

18.50

3.50

220.00

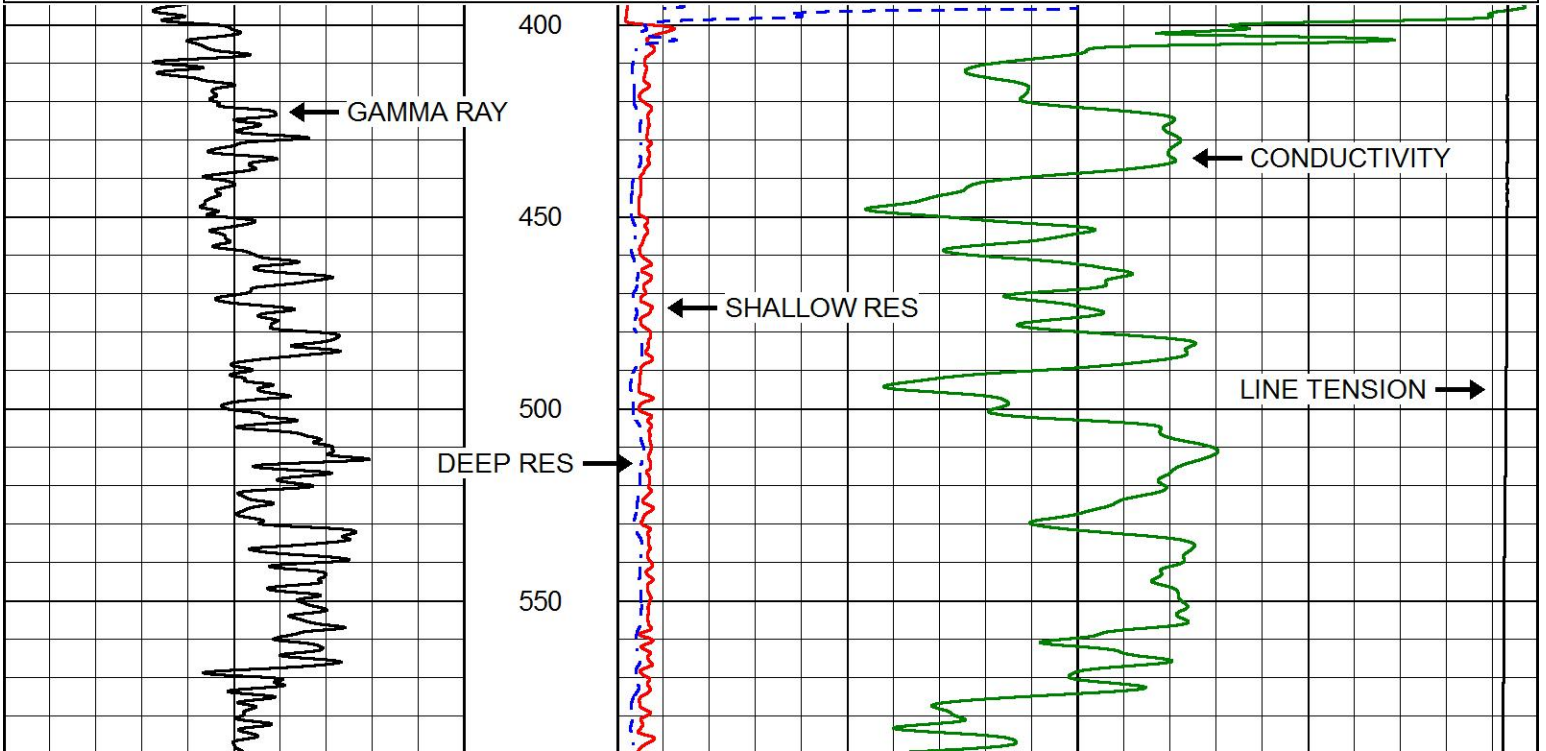
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 Total weight: 685.00 lb
 O.D.: 4.00 in

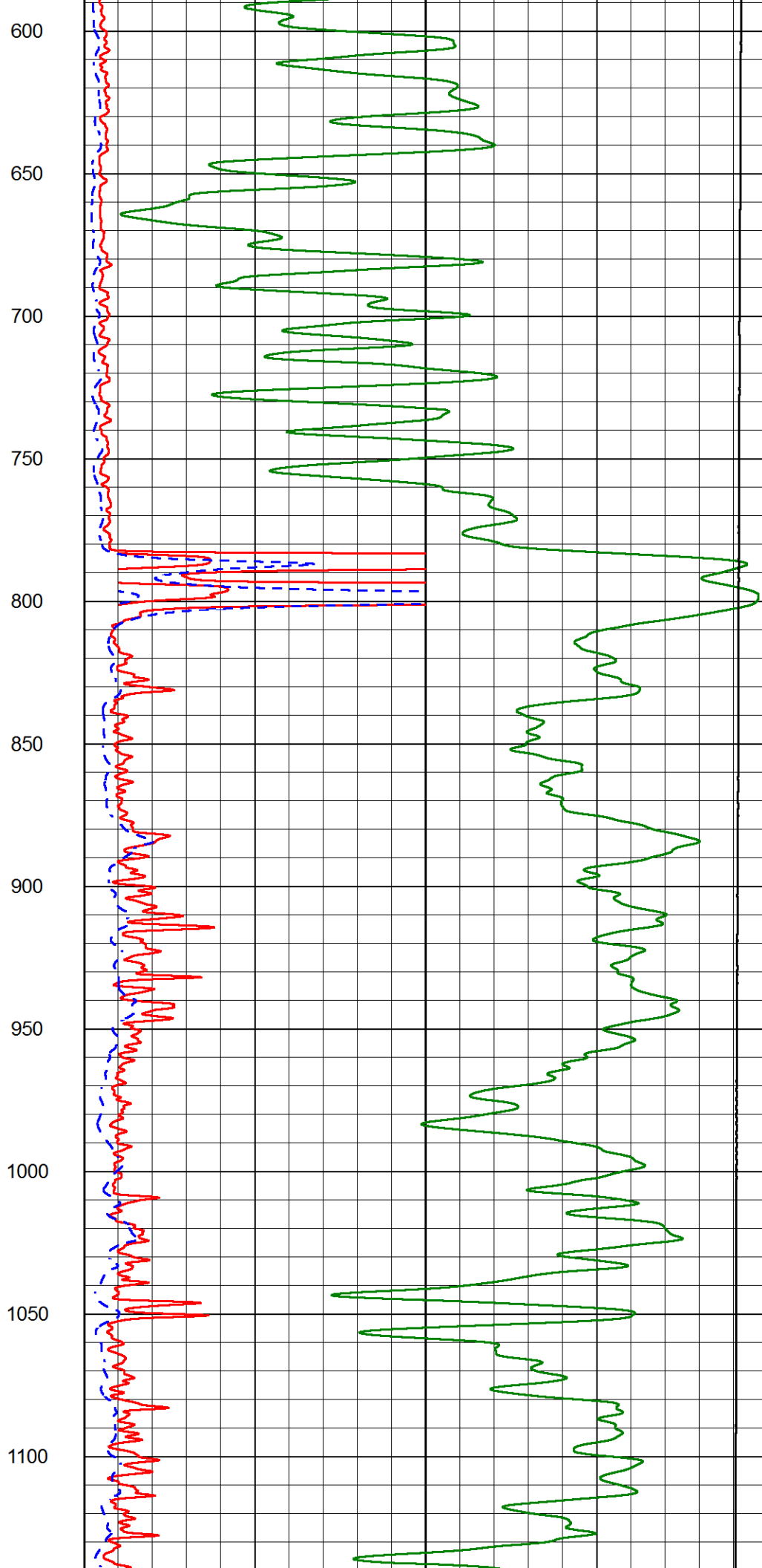
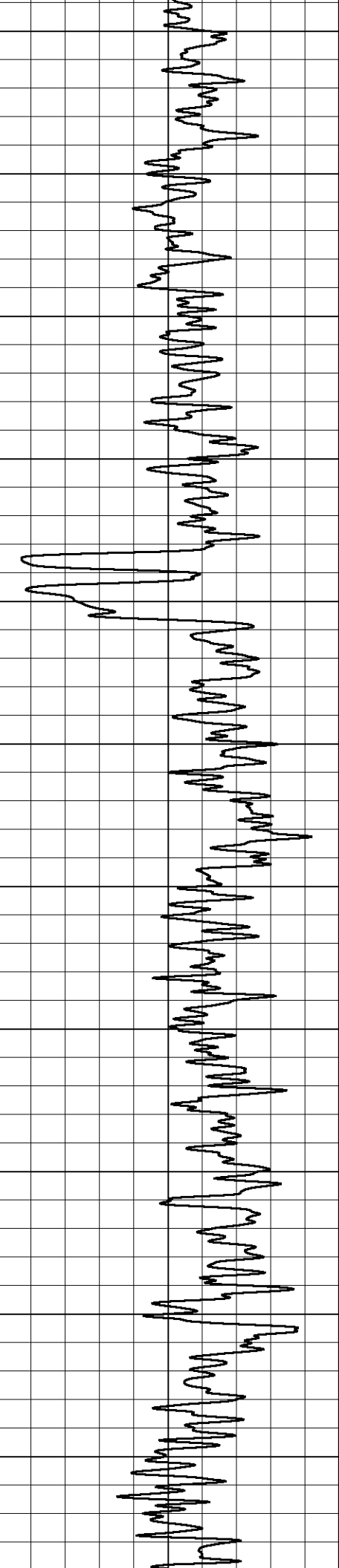


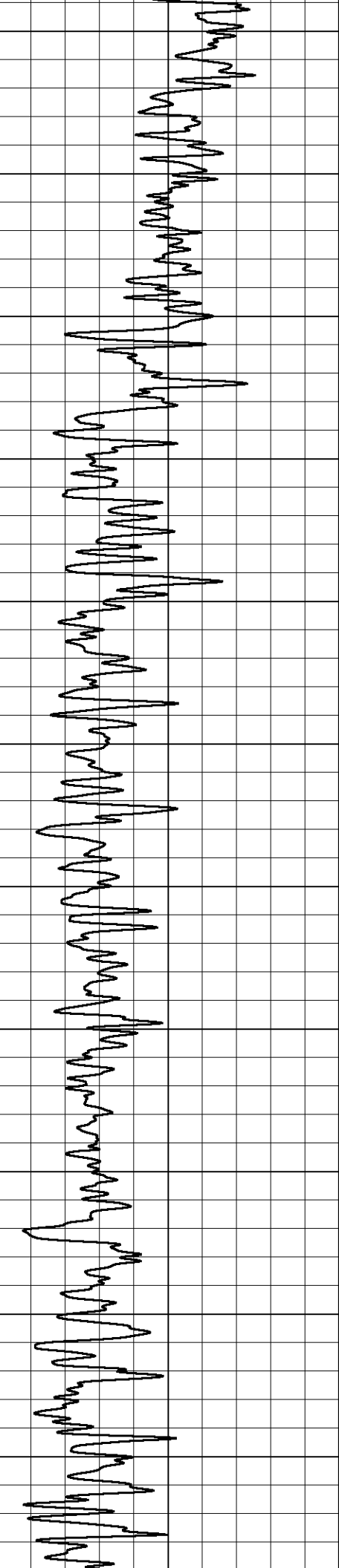
MAIN PASS

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 Dataset Creation Fri Mar 31 20:32:44 2017
 Charted by Depth in Feet scaled 1:600

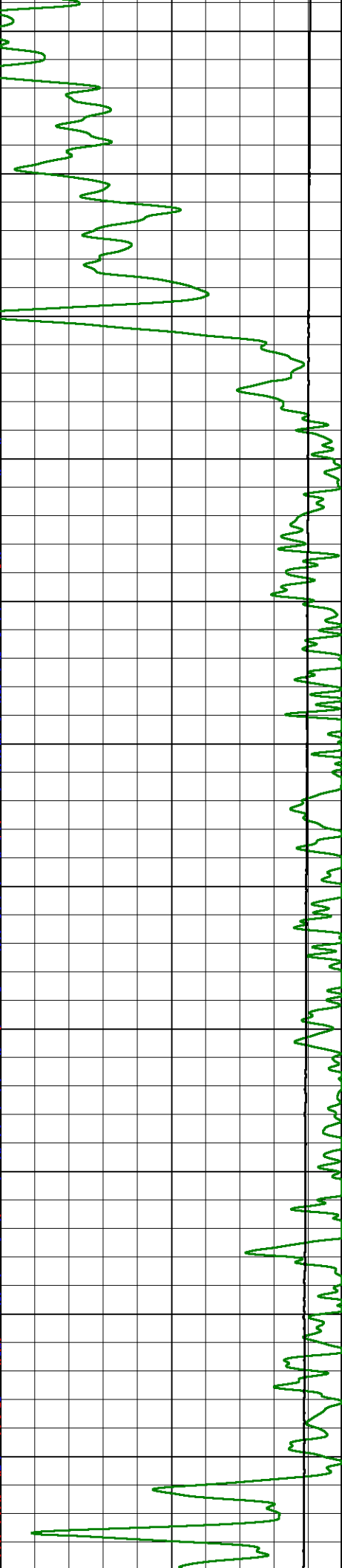
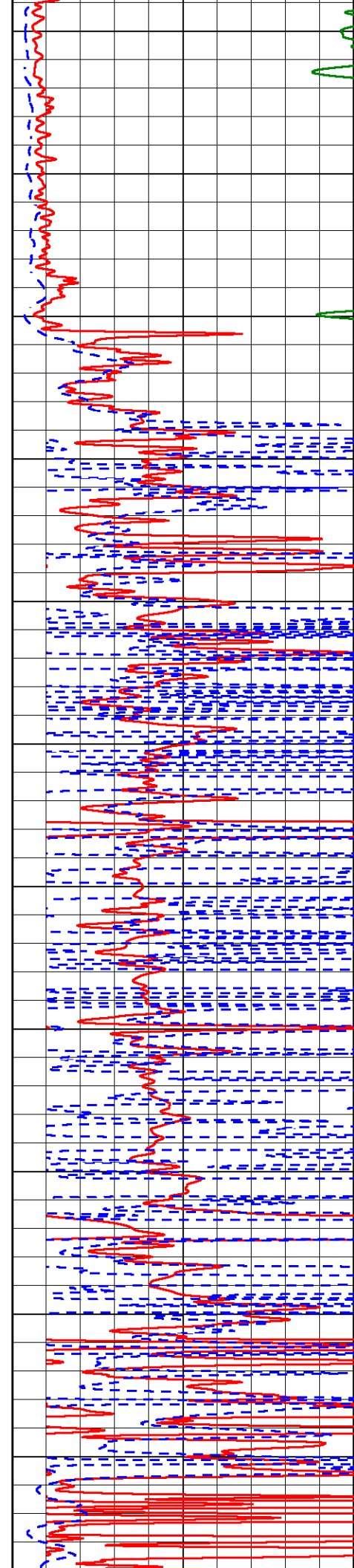
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			15000	Line Tension (lb)	0
0	Shallow Resistivity (Ohm-m)	50			
0	Deep Resistivity (Ohm-m)	50			
	Shallow Resistivity				
50	(Ohm-m)	500			
50	Deep Resistivity (Ohm-m)	500			

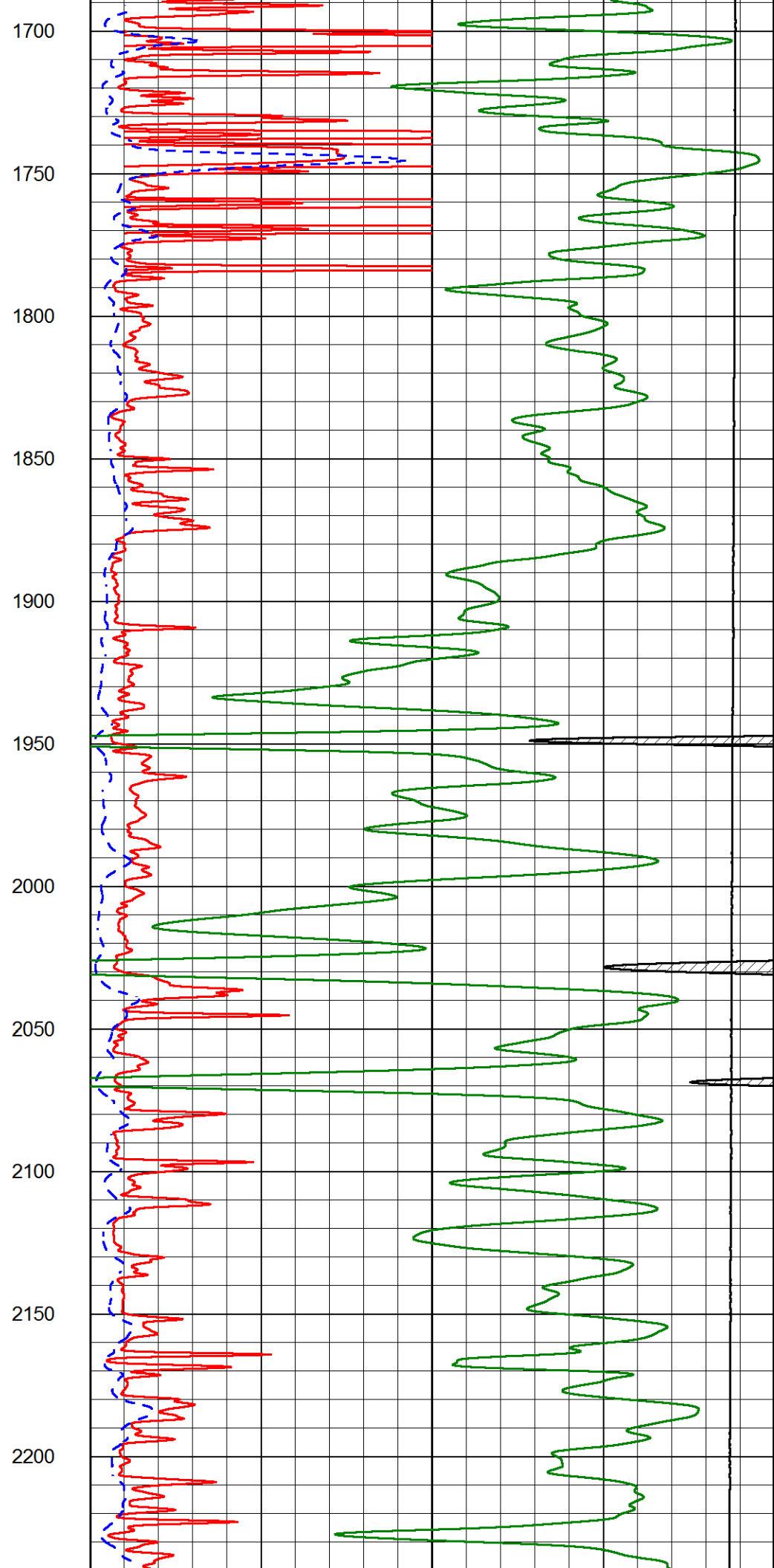
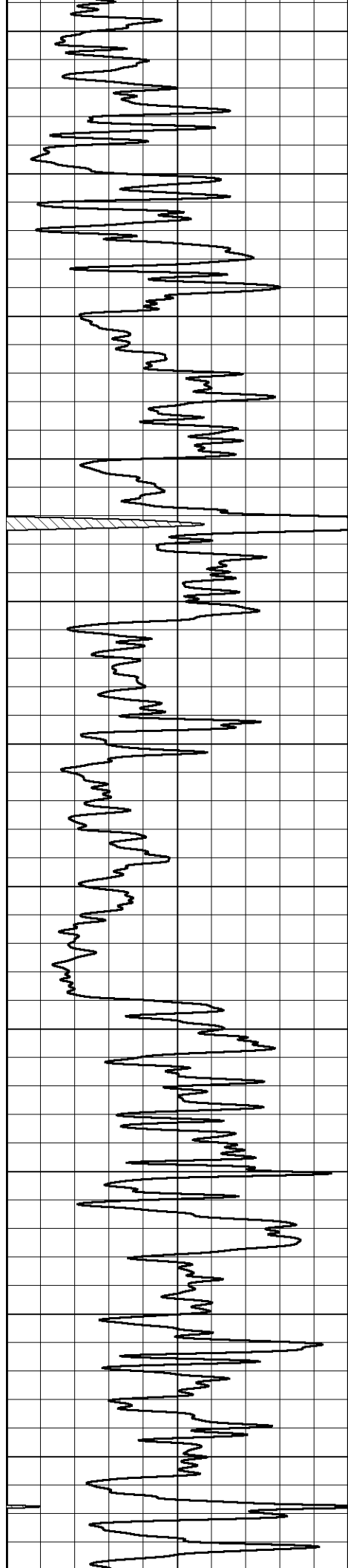


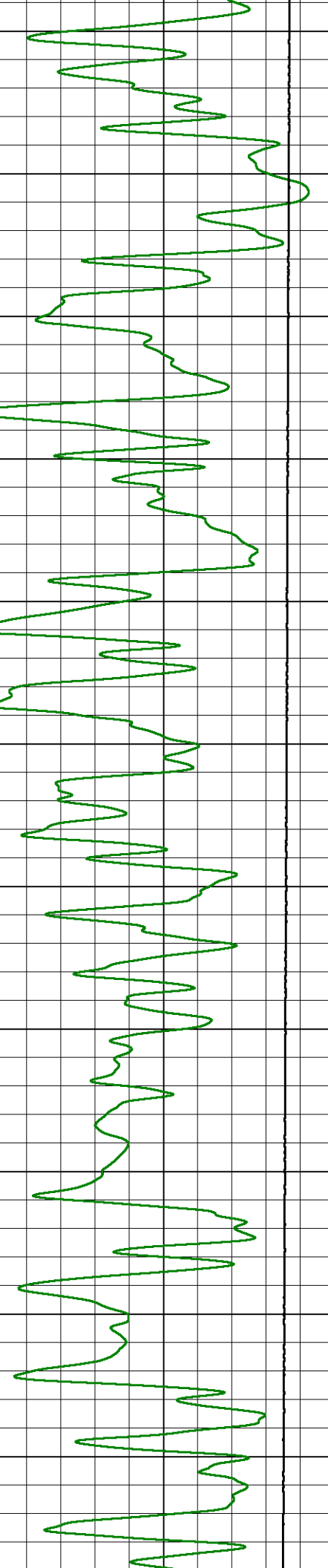
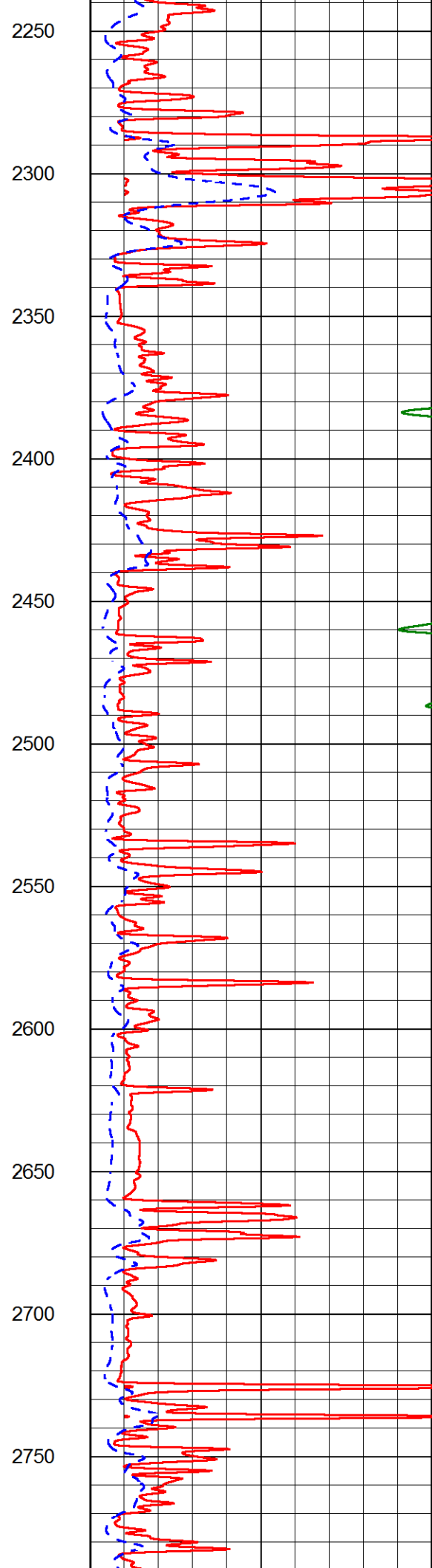
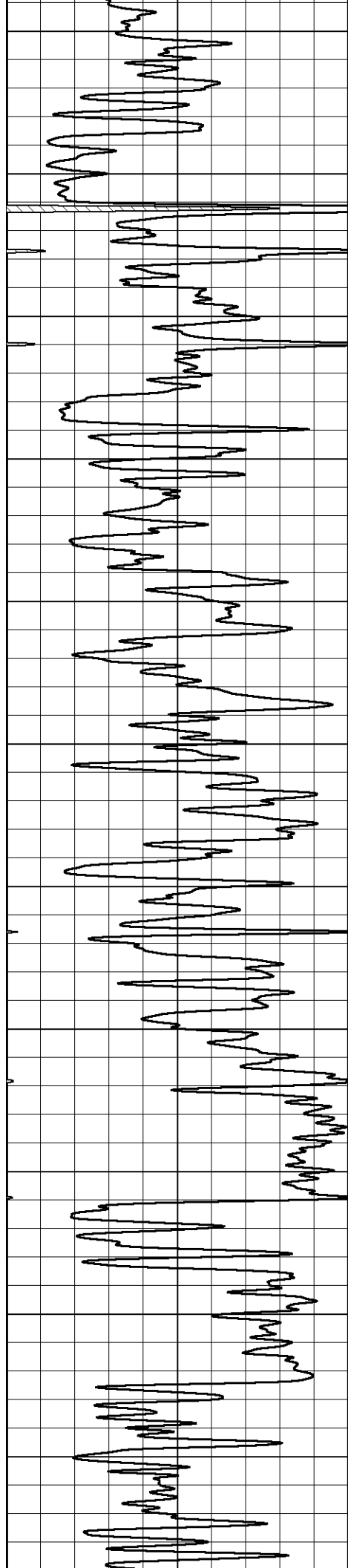


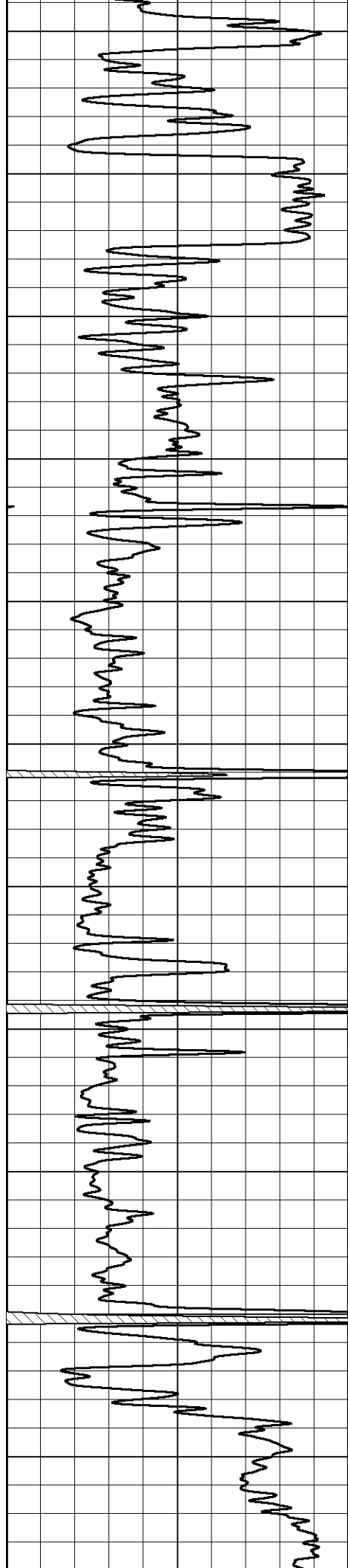


1150
1200
1250
1300
1350
1400
1450
1500
1550
1600
1650

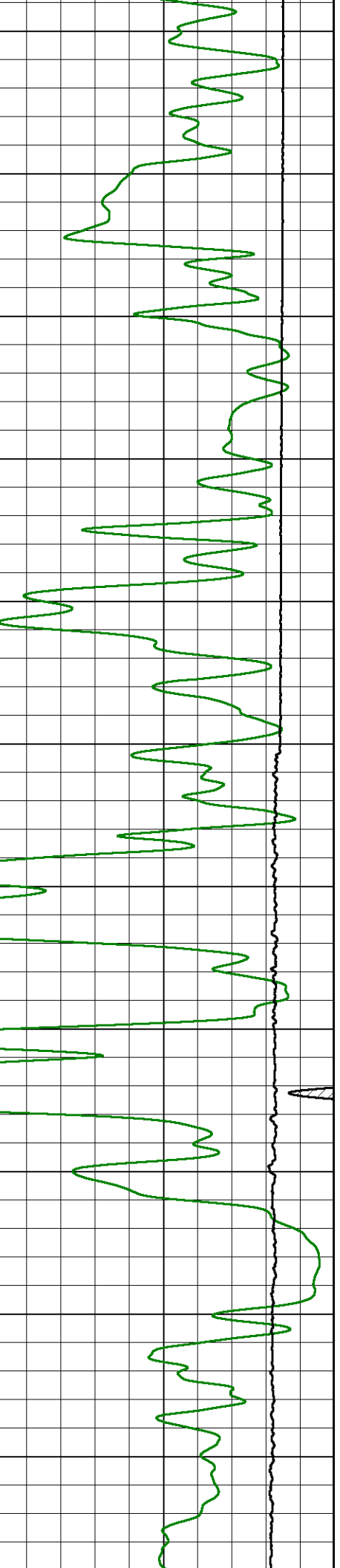
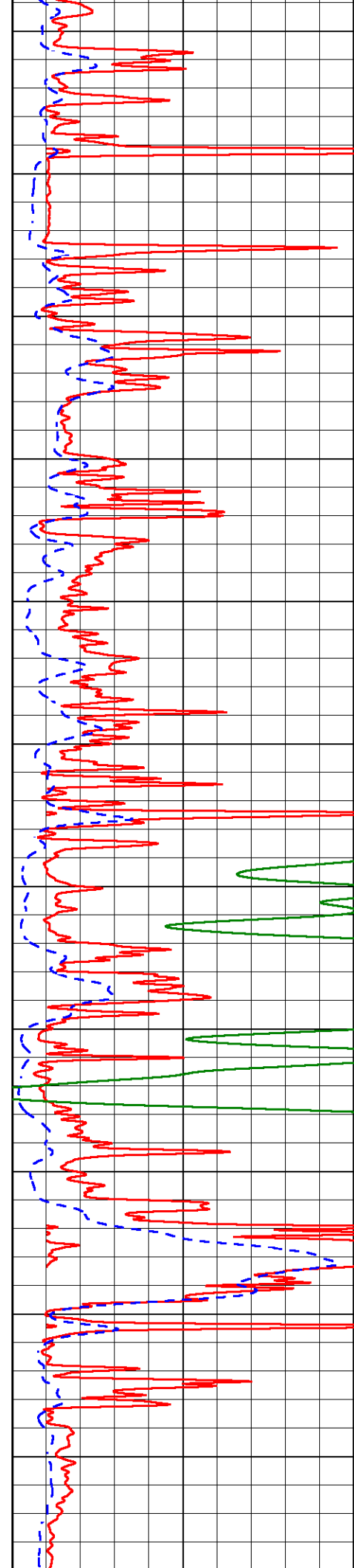


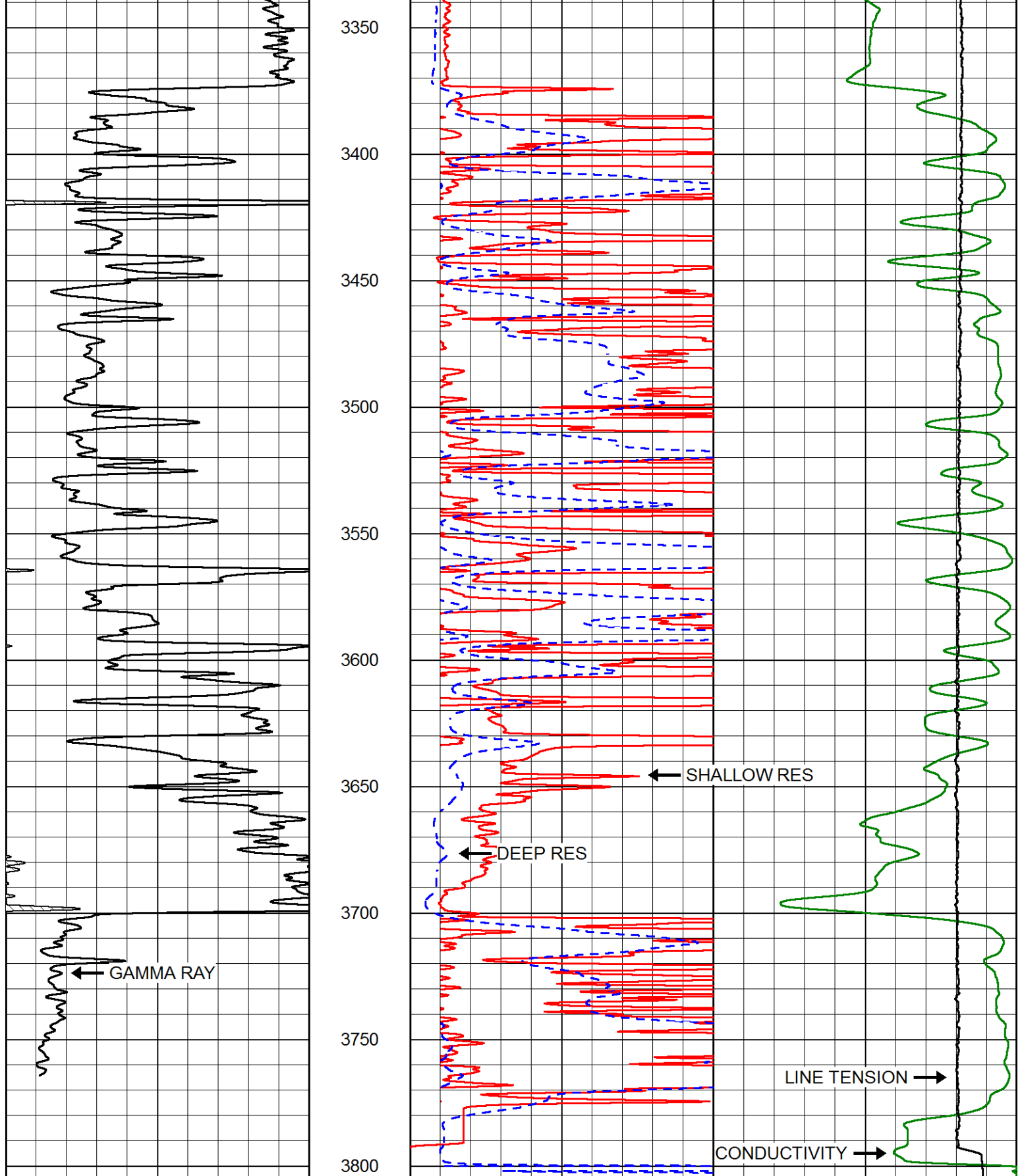






2800
2850
2900
2950
3000
3050
3100
3150
3200
3250
3300





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) 500

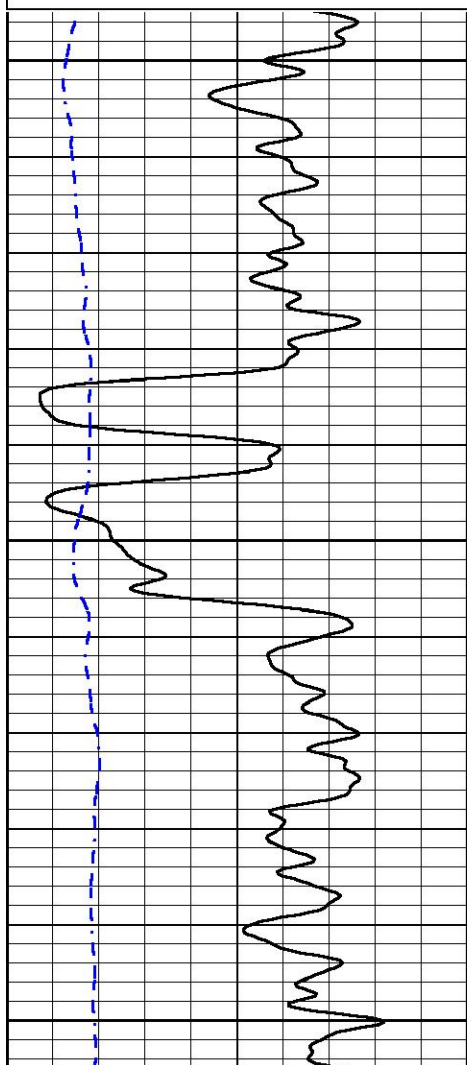
50 Deep Resistivity (Ohm-m) 500

MAIN PASS

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 Dataset Creation Fri Mar 31 20:32:44 2017
 Charted by Depth in Feet scaled 1:240

0	Gamma Ray (GAPI)	150
-200	SP (mV)	0

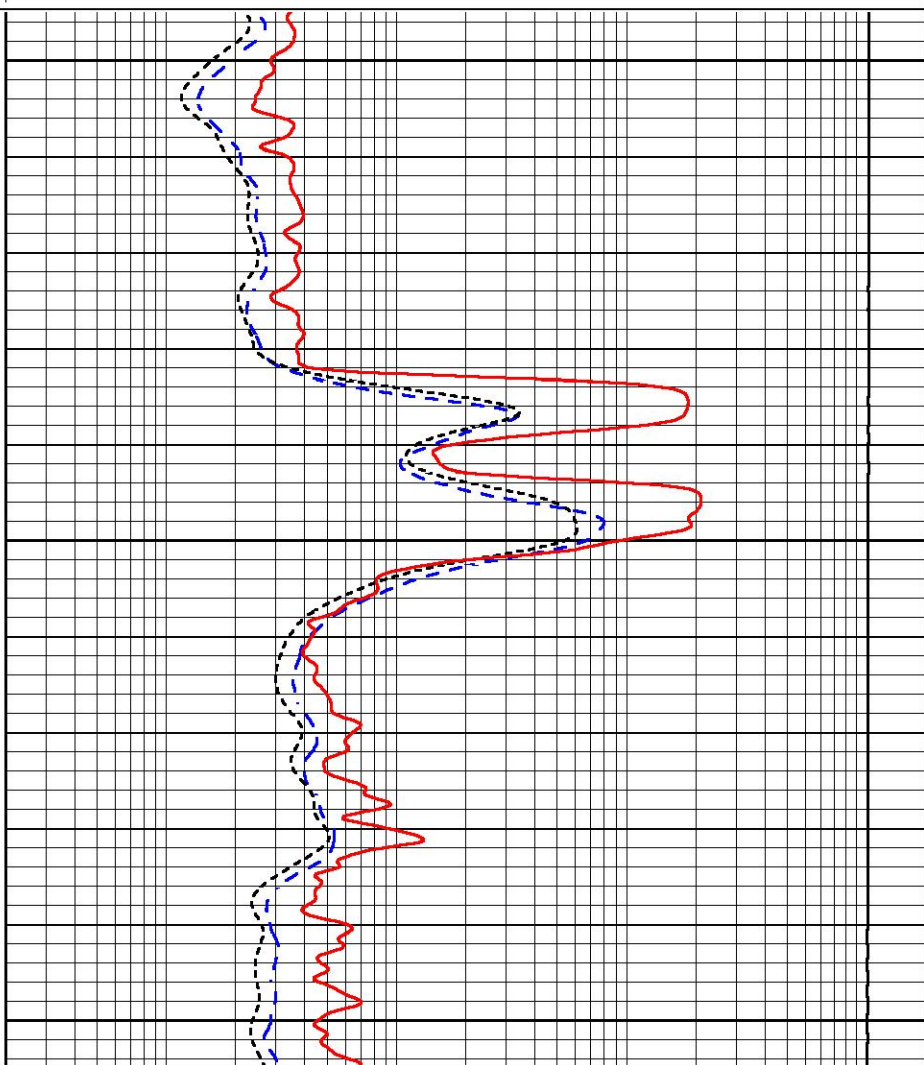
0.2	Deep Resistivity (Ohm-m)	2000
0.2	Medium Resistivity (Ohm-m)	2000
0.2	RLL3 (Ohm-m)	2000
10000	Line Tension (lb)	0



750

800

850



0	Gamma Ray (GAPI)	150
-200	SP (mV)	0

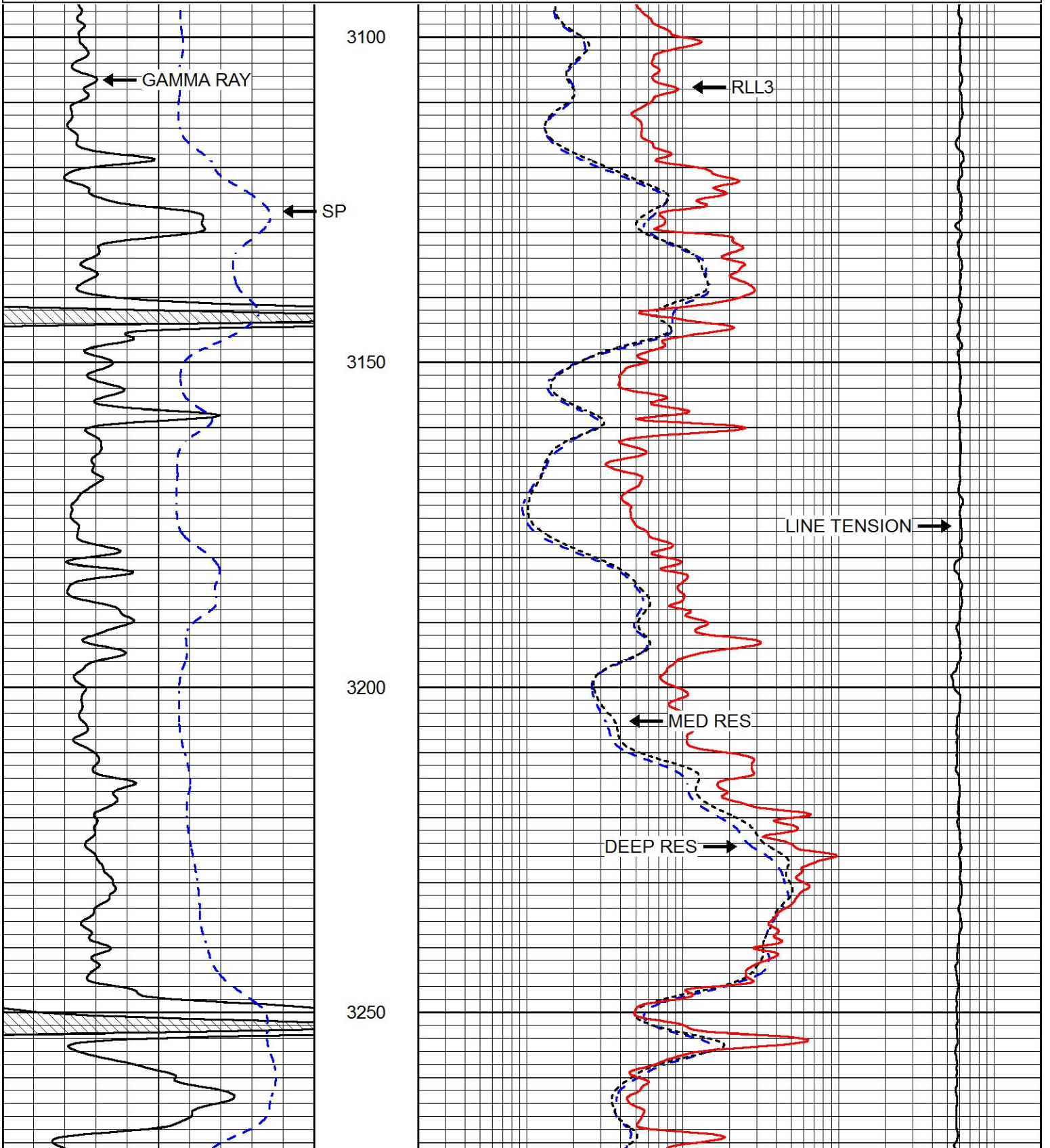
0.2	Deep Resistivity (Ohm-m)	2000
0.2	Medium Resistivity (Ohm-m)	2000
0.2	RLL3 (Ohm-m)	2000
10000	Line Tension (lb)	0

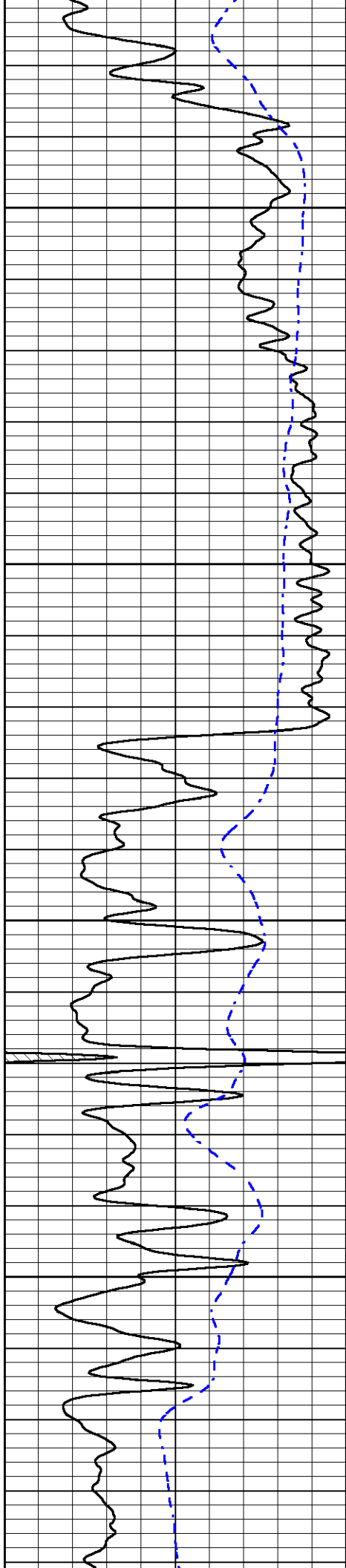
MAIN PASS

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 Dataset Pathname STKML/pass3.1
 Presentation Format dil
 Dataset Creation Fri Mar 31 20:09:00 2017
 Charted by Depth in Feet scaled 1:240

0	Gamma Ray (GAPI)	150
-200	SP (mV)	0

0.2	Deep Resistivity (Ohm-m)	2000
0.2	Medium Resistivity (Ohm-m)	2000
0.2	RLL3 (Ohm-m)	2000
10000	Line Tension (lb)	0



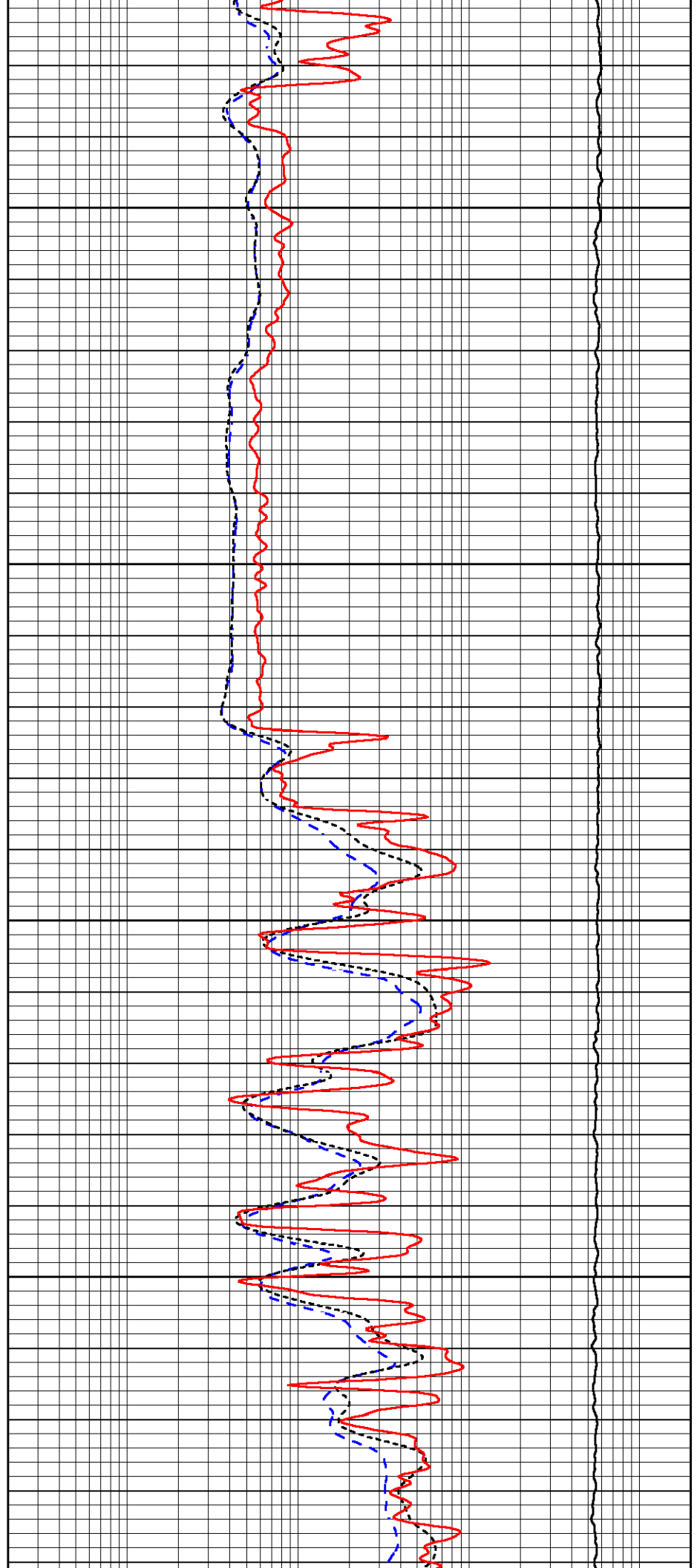


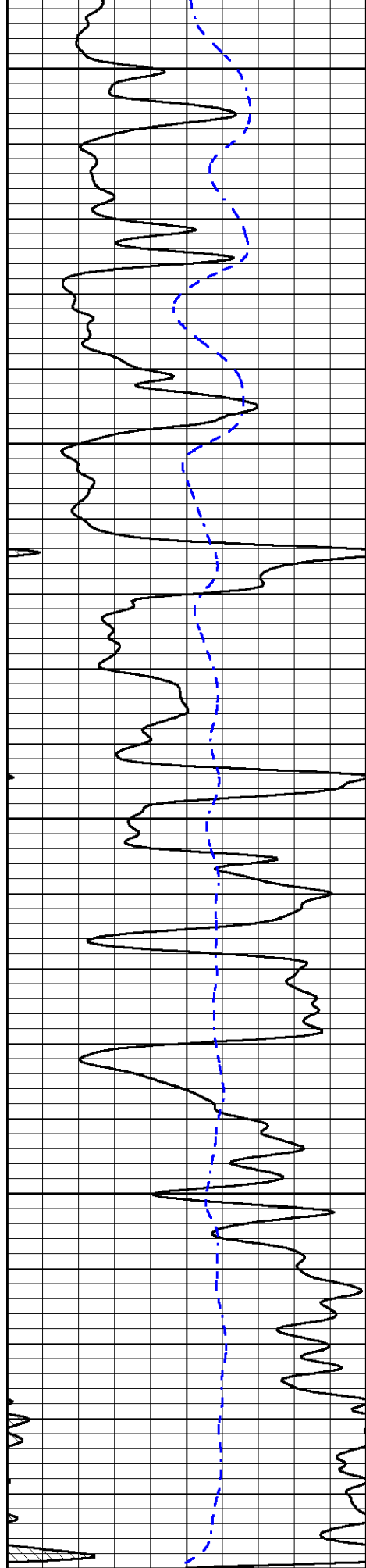
3300

3350

3400

3450





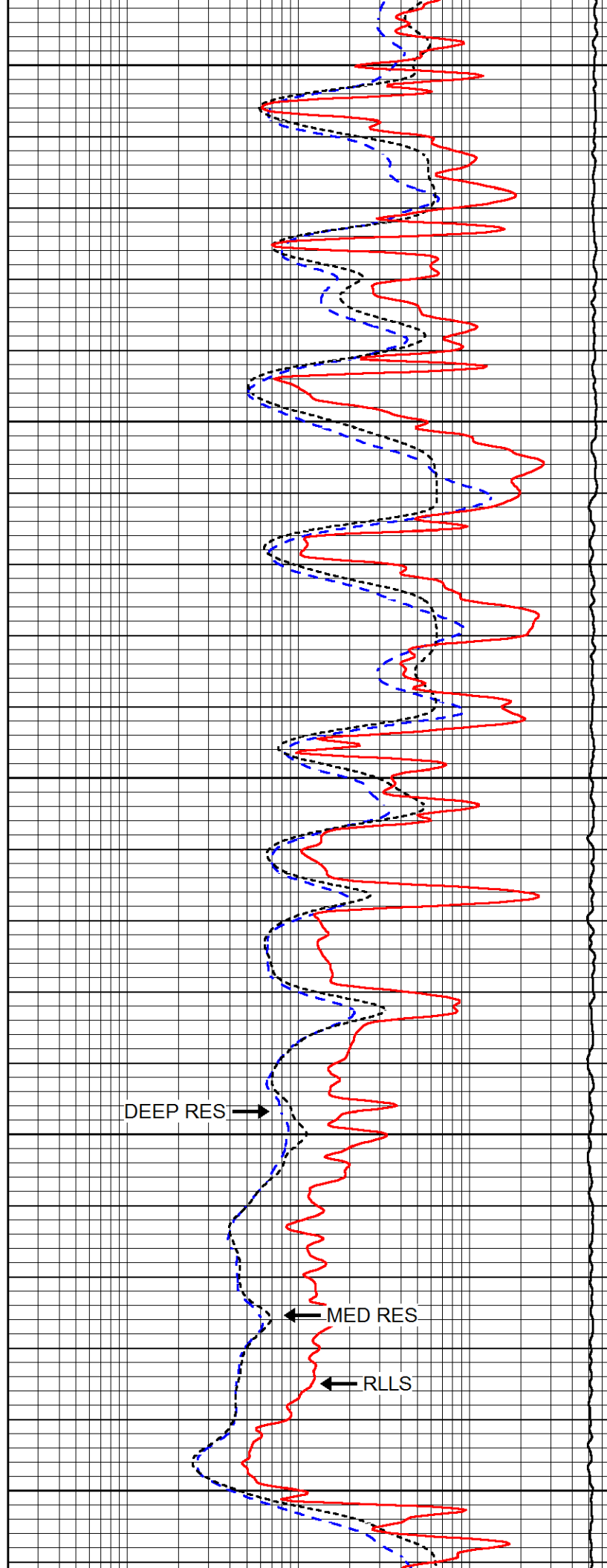
3500

3550

3600

3650

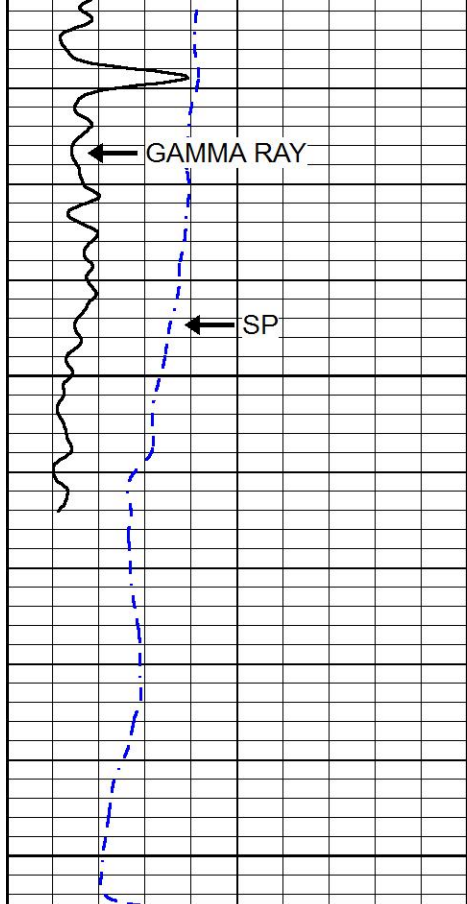
3700



DEEP RES →

← MED RES

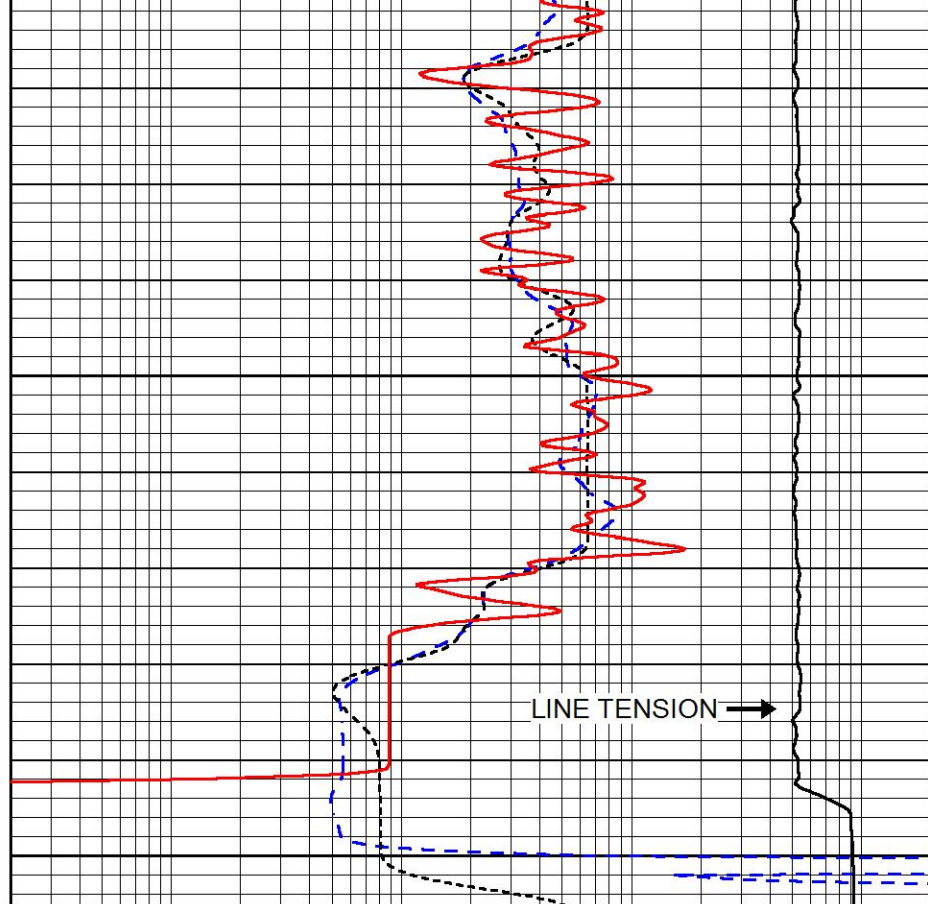
← RLLS



0	Gamma Ray (GAPI)	150
-200	SP (mV)	0

3750

3800



0.2	Deep Resistivity (Ohm-m)	2000
0.2	Medium Resistivity (Ohm-m)	2000
0.2	RLL3 (Ohm-m)	2000
10000	Line Tension (lb)	0

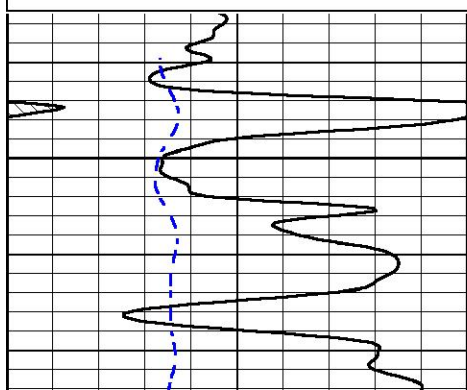


REPEAT SECTION

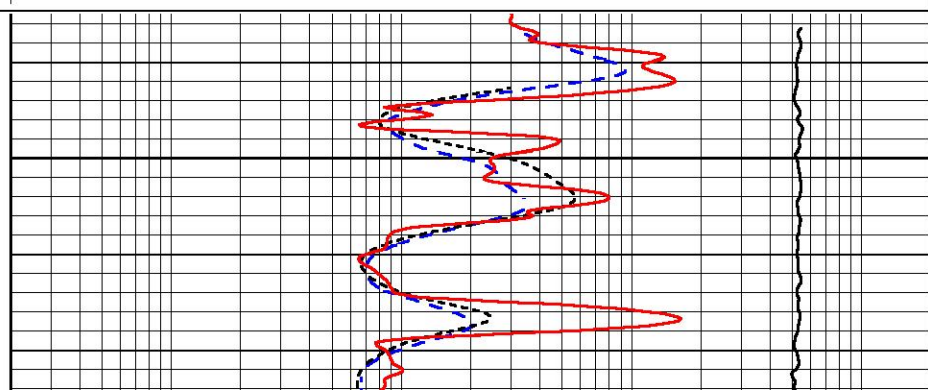
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 Dataset Creation Fri Mar 31 20:14:20 2017
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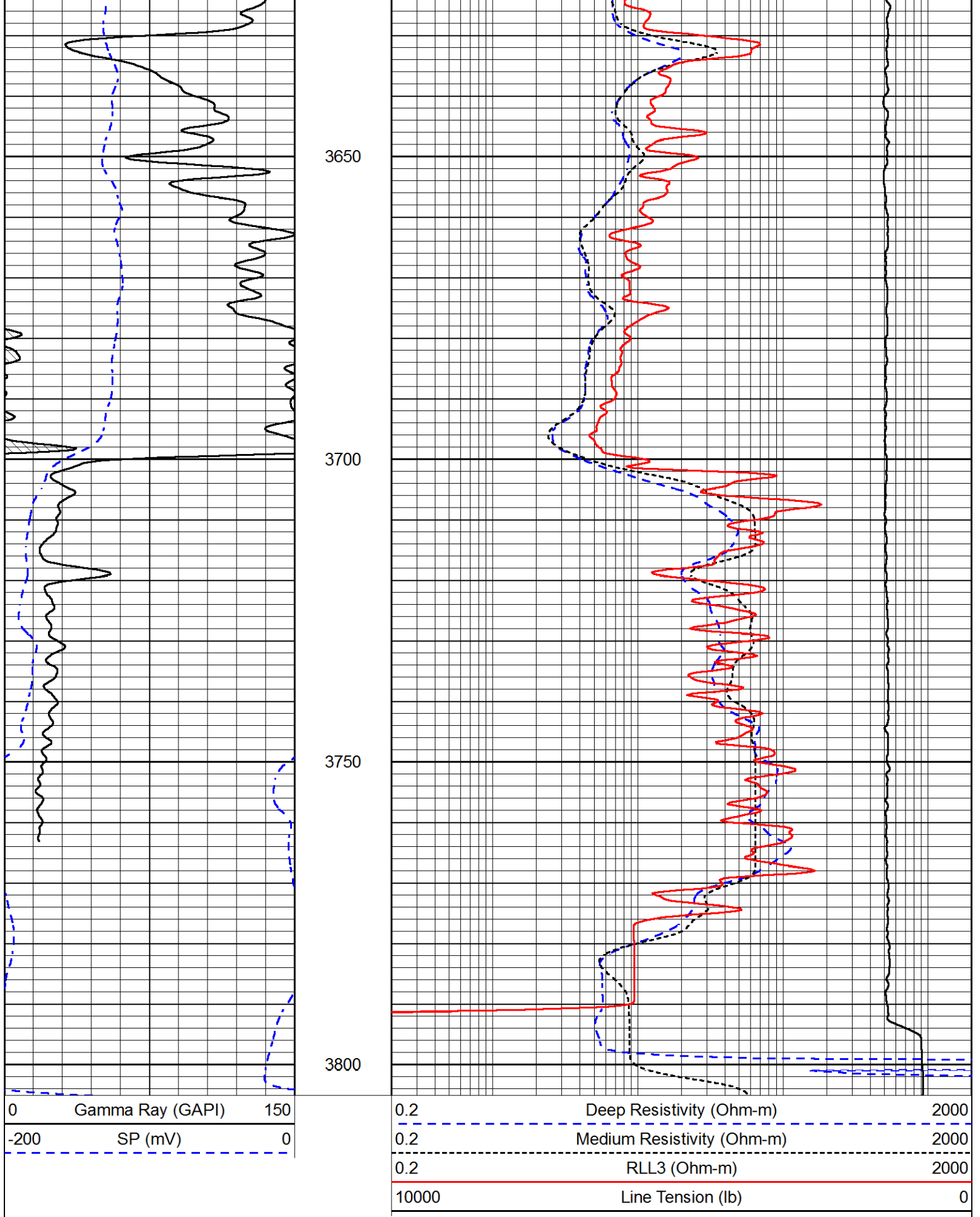
0	Gamma Ray (GAPI)	150
-200	SP (mV)	0

0.2	Deep Resistivity (Ohm-m)	2000
0.2	Medium Resistivity (Ohm-m)	2000
0.2	RLL3 (Ohm-m)	2000
10000	Line Tension (lb)	0



3600





Calibration Report

Database File stratakan_seward sw_1-1.db
 Dataset Pathname STKML/pass3.1
 Dataset Creation Fri Mar 31 20:00:00 2017

Dual Induction Calibration Report

Serial-Model: PSI 13-M&W
 Calibration Performed: Fri Mar 31 18:54:31 2017

Loop:	Readings		References			Results	
	Air	Loop	Air	Loop		Gain	Offset
Deep	166.796	835.089	0.000	255.800	mmho/m	0.900	-23.000
Medium	142.009	1348.560	0.000	255.800	mmho/m	0.850	15.000

Microlog Calibration Report

Serial-Model: PSI-01-PSIML
 Performed: Fri Mar 31 18:41:59 2017

	Readings		References			Results	
	Zero	Cal	Zero	Cal		m	b
Normal	0.0000	1.0000	0.0000	1.0000	Ohm-m	32500.0000	-0.9500
Inverse	0.0000	1.0000	0.0000	1.0000	Ohm-m	30000.0000	-0.3000
Caliper	1.0001	1.1397	6.5000	18.5000	in	70.0000	-65.5350

Compensated Density Calibration Report

Serial-Model: 90-1031-M&W
 Source / Verifier: 16955B / 2ci
 Master Calibration Performed: Fri Mar 31 18:42:23 2017

Master Calibration

	Density		Far Detector	Near Detector	
Magnesium	1.755	g/cc	5174.18	6425.27	cps
Aluminum	2.665	g/cc	963.17	4037.42	cps
Spine Angle = 74.55			Density/Spine Ratio = 0.522		
	Size		Reading		
Small Ring	6.00	in	1.83		
Large Ring	16.00	in	1.48		

Compensated Neutron Calibration Report

Serial Number: 207-MW
 Tool Model: M&W
 Calibration Performed: Fri Mar 31 10:30:30 2017

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: 89
 Tool Model: M&W

Calibration Performed:	Fri Mar 31 18:42:32 2017	
Calibrator Value:	1.0	GAPI
Background Reading:	0.0	cps
Calibrator Reading:	1.0	cps
Sensitivity:	0.6000	GAPI/cps



PIONEER

Pioneer Energy Services

Company	STRATAKAN EXPLORATION, LLC
Well	SEWARD SW #1-1
Field	CURTIS
County	STAFFORD
State	KANSAS



DUAL COMP POROSITY LOG

Pioneer Energy Services

Company STRATAKAN EXPLORATION, LLC
 Well SEWARD SW #1-1
 Field CURTIS
 County STAFFORD
 State KANSAS

Company STRATAKAN EXPLORATION, LLC
 Well SEWARD SW #1-1
 Field CURTIS
 County STAFFORD State KANSAS

Location: API #: 15-185-23983-00-00
 1613' FSL & 405' FEL
 SEC 1 TWP 22S RGE 14W
 Permanent Datum GROUND LEVEL Elevation 1912'
 Log Measured From KELLY BUSHING
 Drilling Measured From KELLY BUSHING
 Other Services DIL/MEL
 K.B. 1923'
 D.F. N/A
 G.L. 1912'

Date	3/31/2017						
Run Number	ONE						
Type Log	CNL/CDL						
Depth Driller	3800'						
Depth Logger	3793'						
Bottom Logged Interval	3764'						
Top Logged Interval	3100'						
Type Fluid In Hole	CHEMICAL						
Salinity, PPM CL	9000						
Density	9.2						
Level	FULL						
Max. Rec. Temp. F	114						
Operating Rig Time	3 HOURS						
Equipment -- Location	91 COLBY						
Recorded By	D. SCHMIDT						
Witnessed By	JUSTIN PRATER						
Borehole Record							
Run No.	Bit	From	To	Size	Wgt.	From	To
ONE	12.25"	0'	404'	8.625"	23#	0'	404'
TWO	7.875"	404'	TD				
Casing Record							

<<< Fold Here >>>

All interpretations are opinions based on inferences from electrical or other measurements and Pioneer Wireline Services, LLC cannot and does not guarantee the accuracy or correctness of any interpretation, and Pioneer 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.
 GREAT BEND,
 SOUTH TO HWY 19, 3 WEST TO 30 RD, 1/4 NORTH,
 WEST INTO

Log Measured From: KELLY BUSHING 11 Ft. Above Permanent Datum
 THANK YOU FOR USING PIONEER ENERGY SERVICES
 www.pioneerenergy.com 785-625-3858

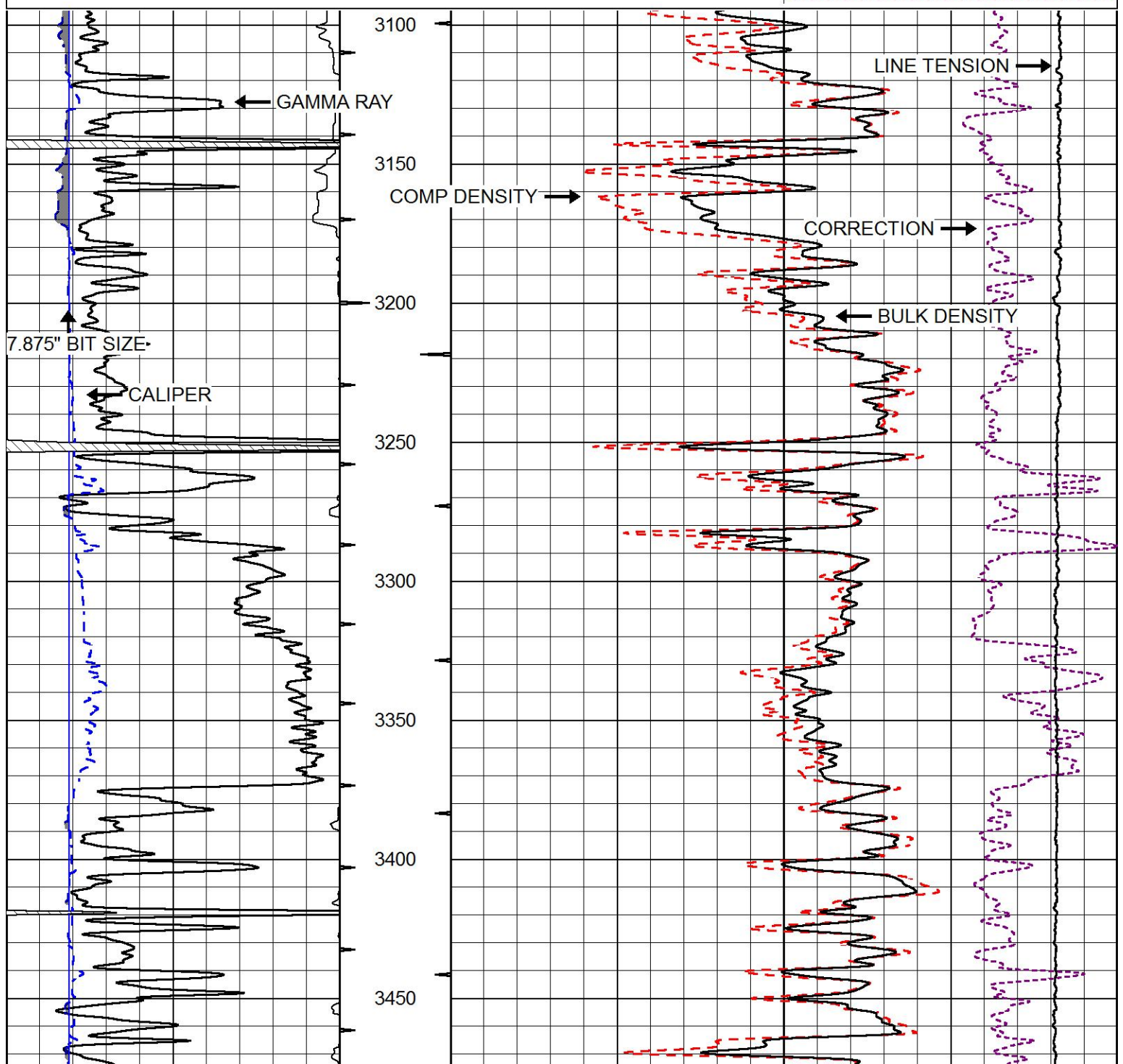
Your Pioneer Energy Services Crew	This Log Record Was Witnessed By
Engineer: D. SCHMIDT	Primary Witness: JUSTIN PRATER
Operator:	Secondary Witness:
Operator:	Secondary Witness:
Operator:	Secondary Witness:

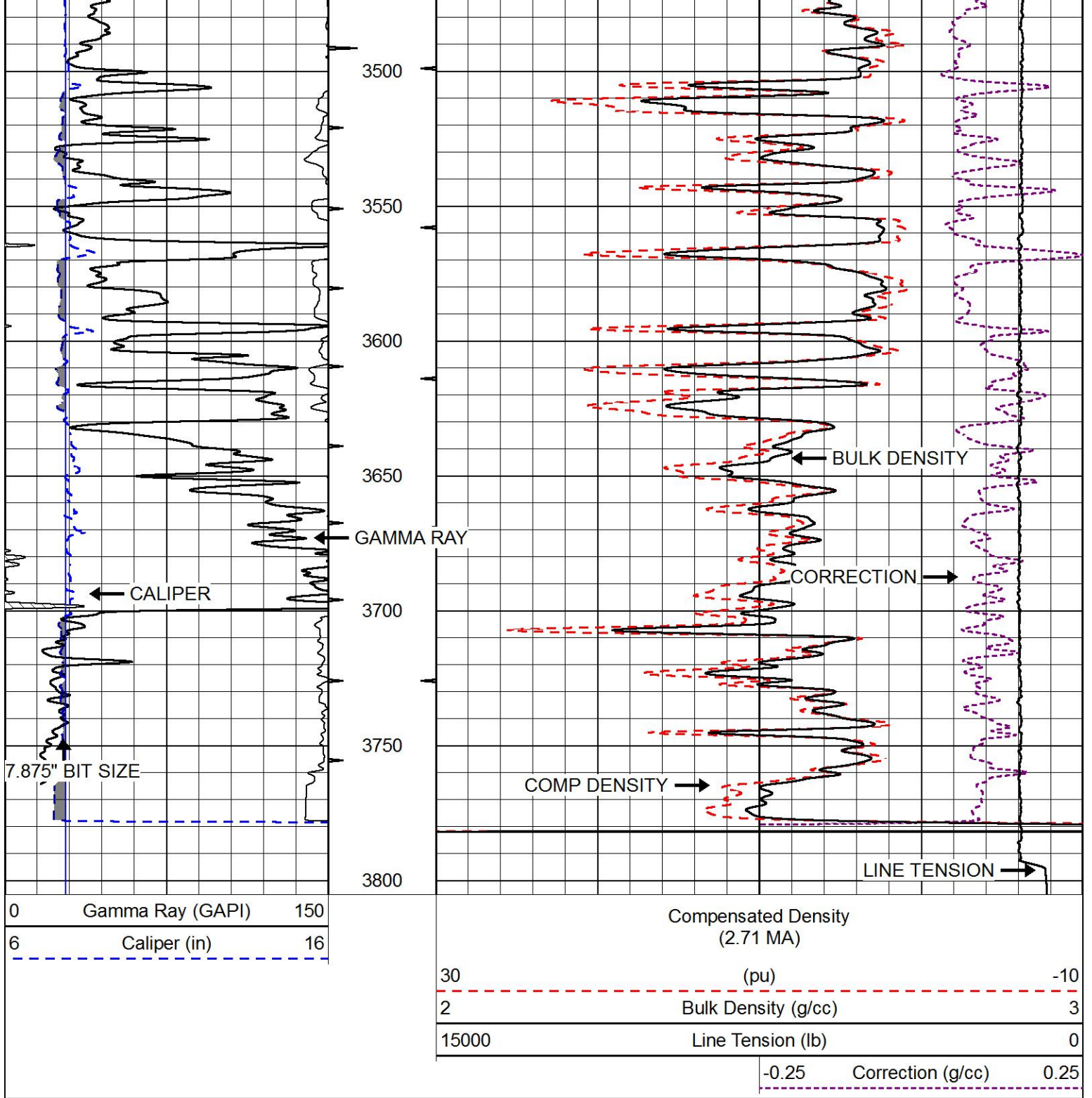
MAIN PASS

Database File stratakan_seward sw_1-1.db
 Dataset Pathname STKML/pass3.1
 Presentation Format cdl
 Dataset Creation Fri Mar 31 20:09:00 2017
 Charted by Depth in Feet scaled 1:600

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

Compensated Density (2.71 MA)	
30	(pu) -10
2	Bulk Density (g/cc) 3
15000	Line Tension (lb) 0
-0.25	Correction (g/cc) 0.25

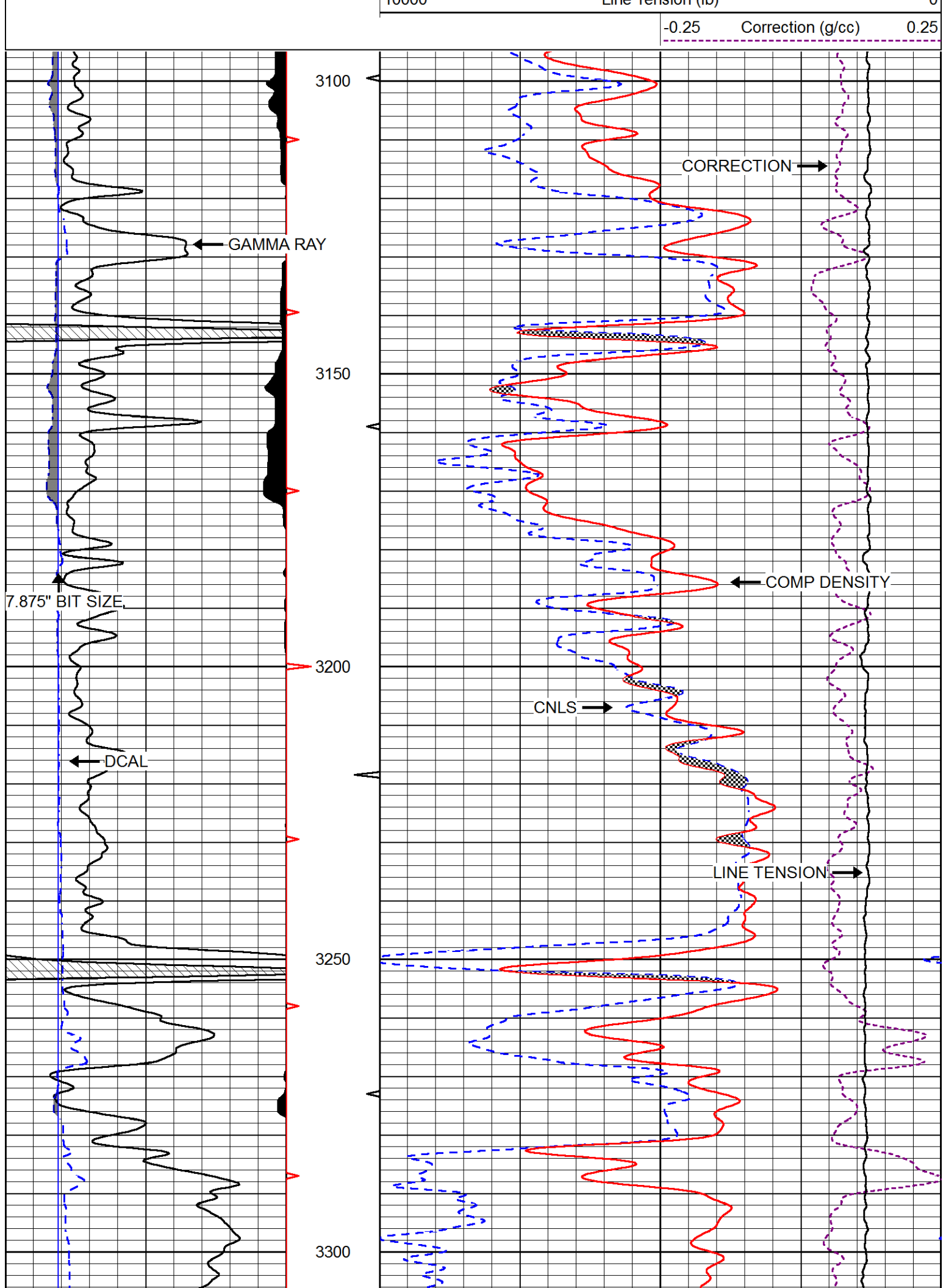


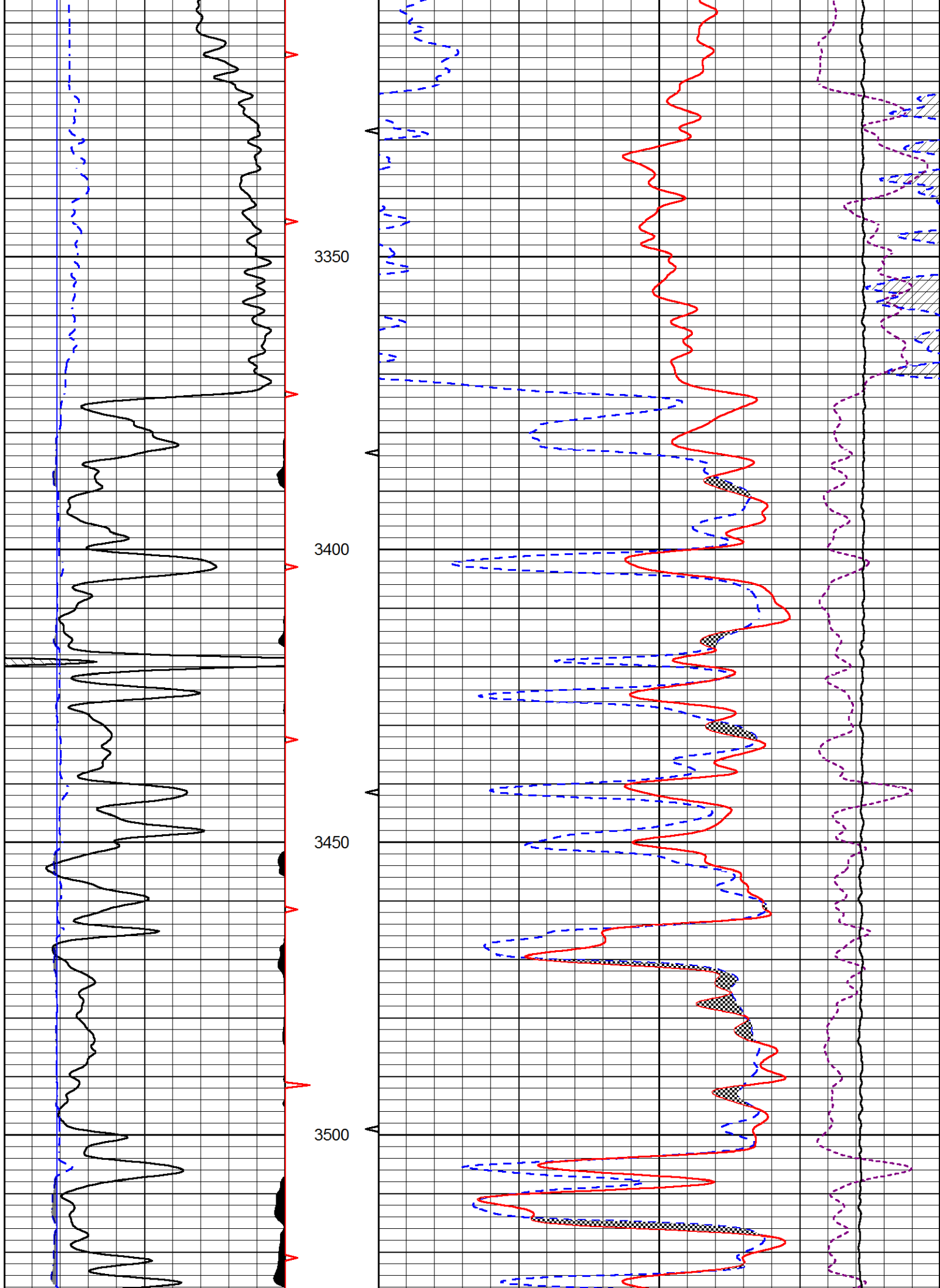


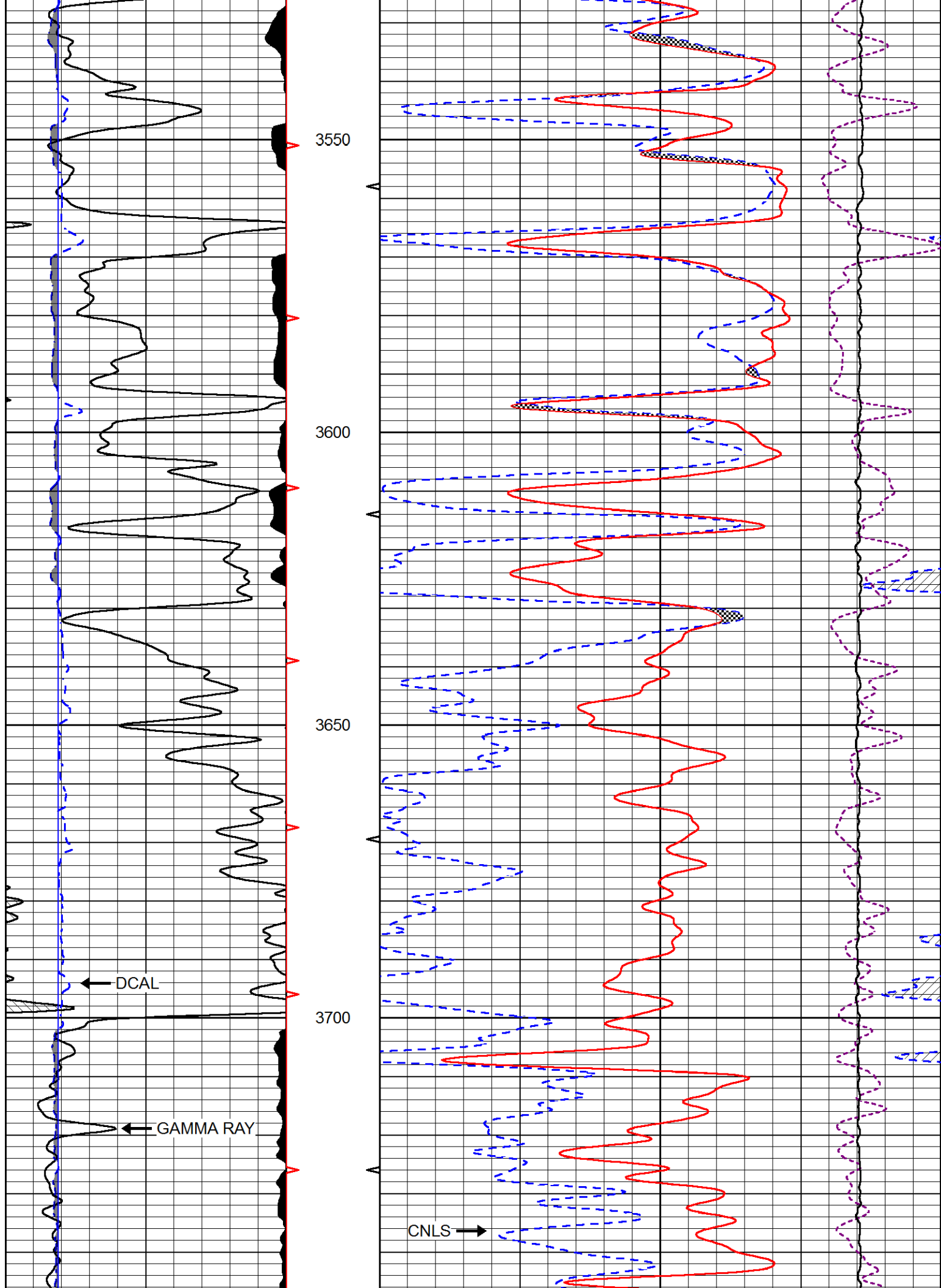
MAIN PASS

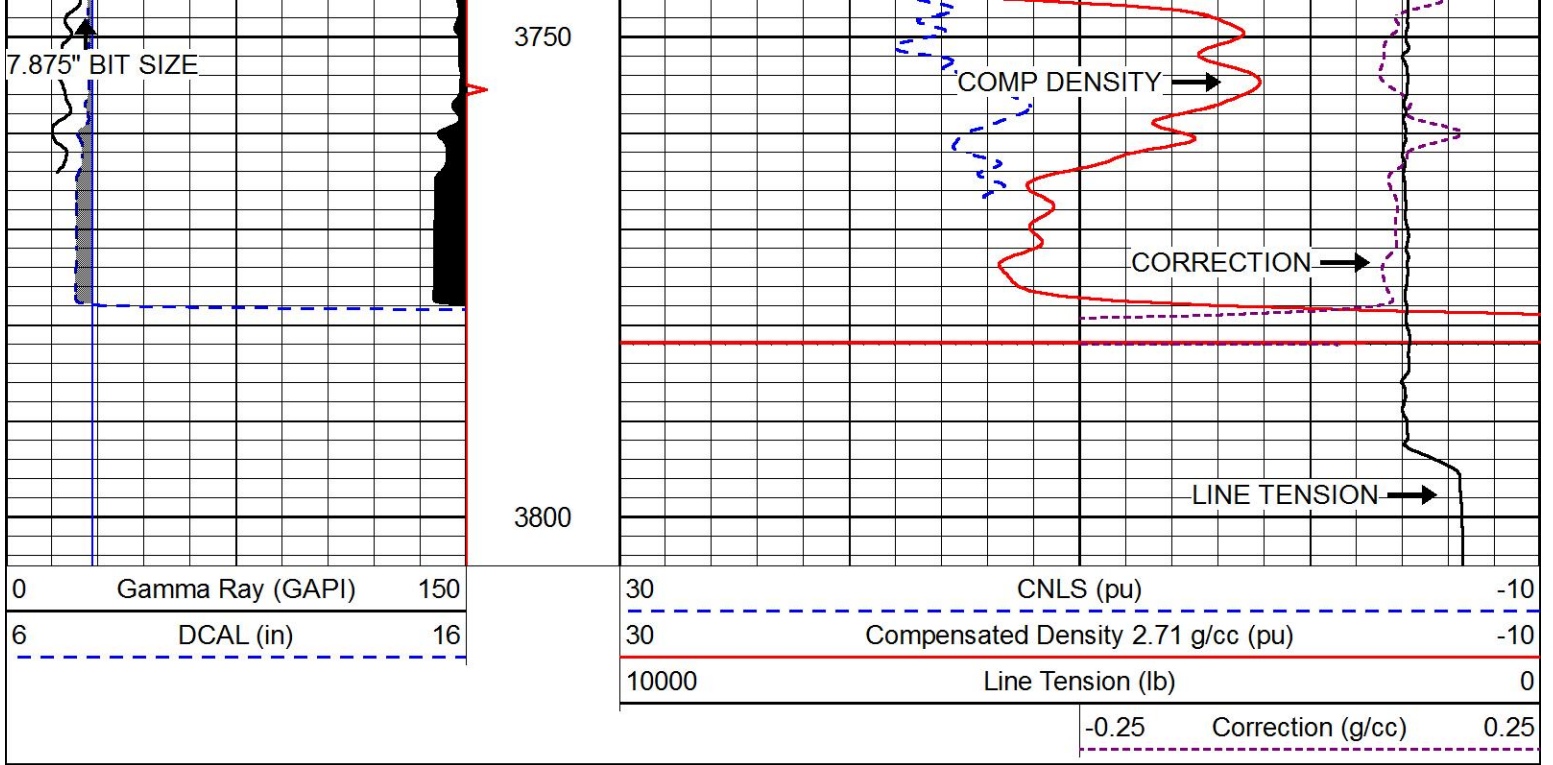
Database File stratakan_seward sw_1-1.db
 Dataset Pathname STKML/pass3.1
 Presentation Format cndlspec
 Dataset Creation Fri Mar 31 20:09:00 2017
 Charted by Depth in Feet scaled 1:240





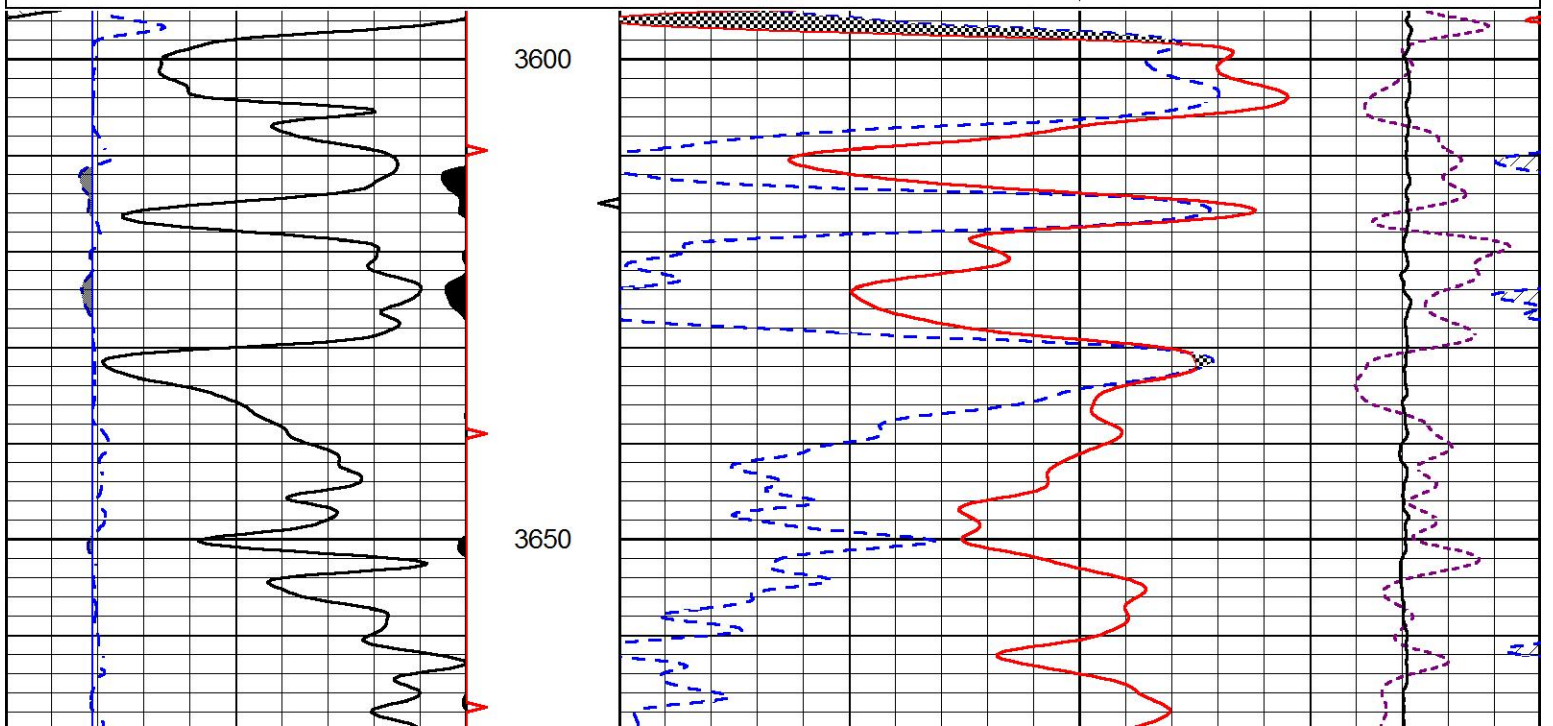
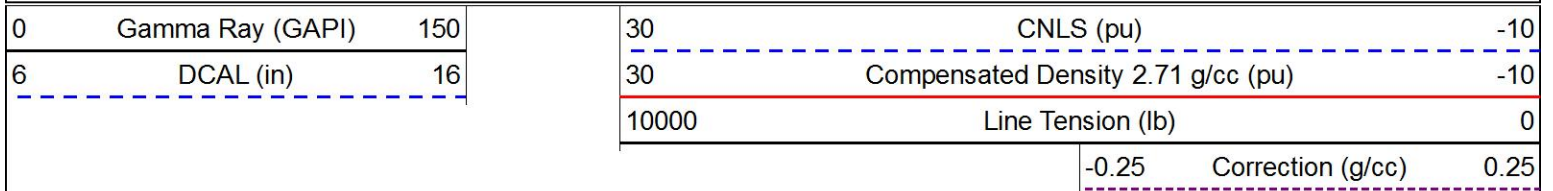


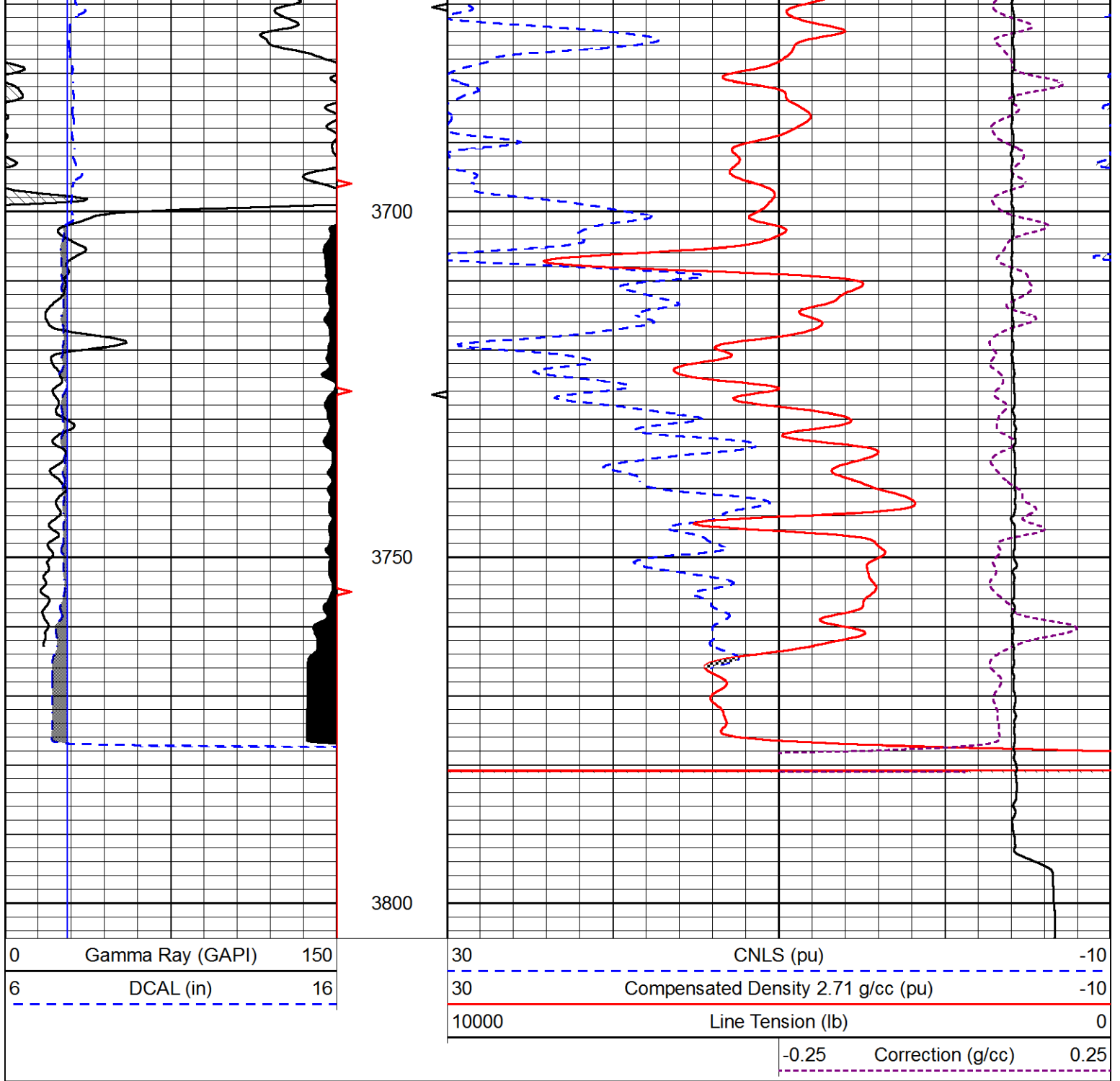




REPEAT SECTION

Database File stratakan_seward sw_1-1.db
 Dataset Pathname STKML/pass2.1
 Presentation Format cndlspec
 Dataset Creation Fri Mar 31 20:14:20 2017
 Charted by Depth in Feet scaled 1:240





Calibration Report

Database File stratakan_seward sw_1-1.db
 Dataset Pathname STKML/pass3.8
 Dataset Creation Fri Mar 31 19:56:34 2017

Dual Induction Calibration Report

Serial-Model: PSI 13-M&W
 Calibration Performed: Fri Mar 31 18:54:31 2017

Loop:	Readings		References			Results	
	Air	Loop	Air	Loop		Gain	Offset
Deep	166.796	835.089	0.000	255.800	mmho/m	0.800	-20.000
Medium	142.009	1348.560	0.000	255.800	mmho/m	0.750	12.000

Microlog Calibration Report

Serial-Model: PSI-01-PSIML
 Performed: Fri Mar 31 18:41:59 2017

	Readings		References			Results	
	Zero	Cal	Zero	Cal		m	b
Normal	0.0000	1.0000	0.0000	1.0000	Ohm-m	32500.0000	-0.9500
Inverse	0.0000	1.0000	0.0000	1.0000	Ohm-m	30000.0000	-0.3000
Caliper	1.0001	1.1397	6.5000	18.5000	in	70.0000	-65.5350

Compensated Density Calibration Report

Serial-Model: 90-1031-M&W
 Source / Verifier: 16955B / 2ci
 Master Calibration Performed: Fri Mar 31 18:42:23 2017

Master Calibration

	Density		Far Detector	Near Detector	
Magnesium	1.755	g/cc	5174.18	6425.27	cps
Aluminum	2.665	g/cc	963.17	4037.42	cps
Spine Angle = 74.55		Density/Spine Ratio = 0.522			
	Size		Reading		
Small Ring	6.00	in	1.83		
Large Ring	16.00	in	1.48		

Compensated Neutron Calibration Report

Serial Number: 207-MW
 Tool Model: M&W
 Calibration Performed: Fri Mar 31 10:30:30 2017

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: 89
 Tool Model: M&W
 Calibration Performed: Fri Mar 31 18:42:32 2017

Calibrator Value: 1.0 GAPI

Background Reading: 0.0 cps
 Calibrator Reading: 1.0 cps

Sensitivity: 0.6000 GAPI/cps



Company STRATAKAN EXPLORATION, LLC
 Well SEWARD SW #1-1

PIONEER

Pioneer Energy Services

Field	CURTIS
County	STAFFORD
State	KANSAS



MICRORESISTIVITY LOG

Pioneer Energy Services

Company STRATAKAN EXPLORATION, LLC
 Well SEWARD SW #1-1
 Field CURTIS
 County STAFFORD State KANSAS

Location: API #: 15-185-23983-00-00
 1613' FSL & 405' FEL
 SEC 1 TWP 22S RGE 14W
 Permanent Datum GROUND LEVEL Elevation 1912'
 Log Measured From KELLY BUSHING
 Drilling Measured From KELLY BUSHING
 Other Services CNL/CDL DIL
 Elevation K.B. 1923'
 D.F. N/A
 G.L. 1912'

Date	3/31/2017
Run Number	ONE
Depth Driller	3800'
Depth Logger	3793'
Bottom Logged Interval	3792'
Top Log Interval	3100'
Casing Driller	8.625" @ 404'
Casing Logger	400'
Bit Size	7.875"
Type Fluid in Hole	CHEMICAL
Salinity, ppm CL	9000
Density / Viscosity	9.2 63
pH / Fluid Loss	8.5 15
Source of Sample	FLOWLINE
Rm @ Meas. Temp	0.70 @ 62
Rmt @ Meas. Temp	0.53 @ 62
Rmc @ Meas. Temp	0.95 @ 62
Source of Rmf / Rmc	CHARTS
Rm @ BHT	0.38 @ 114
Operating Rig Time	3 HOURS
Max Rec. Temp. F	114
Equipment Number	91
Location	COLBY
Recorded By	D. SCHMIDT
Witnessed By	JUSTIN PRATER

<<< Fold Here >>>

All interpretations are opinions based on inferences from electrical or other measurements and Pioneer Wireline Services, LLC cannot and does not guarantee the accuracy or correctness of any interpretation, and Pioneer 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.
 GREAT BEND,
 SOUTH TO HWY 19, 3 WEST TO 30 RD, 1/4 NORTH,
 WEST INTO

Log Measured From: KELLY BUSHING 11 Ft. Above Permanent Datum

THANK YOU FOR USING PIONEER ENERGY SERVICES
www.pioneerenergy.com 785-625-3858

Your Pioneer Energy Services Crew	This Log Record Was Witnessed By
Engineer: D. SCHMIDT	Primary Witness: JUSTIN PRATER
Operator:	Secondary Witness:
Operator:	Secondary Witness:
Operator:	Secondary Witness:

Top - Bottom

A	BOREID in	BOTTEMP degF	CASEOD in	CASETHCK in	FLUIDDEN g/cc	M	MATRXDEN g/cc
1	7.875	114	5.5	0	1	2	2.71
NPORSEL	PERFS	SNDERR mmho/m	SNDERRM mmho/m	SPSHIFT mV	SRFTEMP degF	SZCOR	TDEPTH ft
Limestone	0	0	0	145	0	Off	3793

Sensor	Offset (ft)	Schematic	Description	Length (ft)	O.D. (in)	Weight (lb)
GR	40.58		GR-M&W (89)	3.00	3.50	50.00
CNLSC CNSSC	37.48 36.73		CNT-M&W (207-MW)	5.50	3.50	100.00
LSD DCAL SSD	28.43 28.42 27.93		CDL-M&W (90-1031)	8.50	4.00	250.00
MCAL MI MN	19.83 19.83 19.83		ML-PSIML (PSI-01) GO Micro log tools converted to Simplec electronics	7.58	4.00	65.00
RLL3F RLL3	15.80 15.80					

CILD 8.00

CILM 4.70

SP 0.20

DIL-M&W (PSI 13)

18.50

3.50

220.00

Dataset: stratakan_seward sw_1-1.db: field/well/STKML/pass4.1
 Total length: 43.08 ft
 Total weight: 685.00 lb
 O.D.: 4.00 in

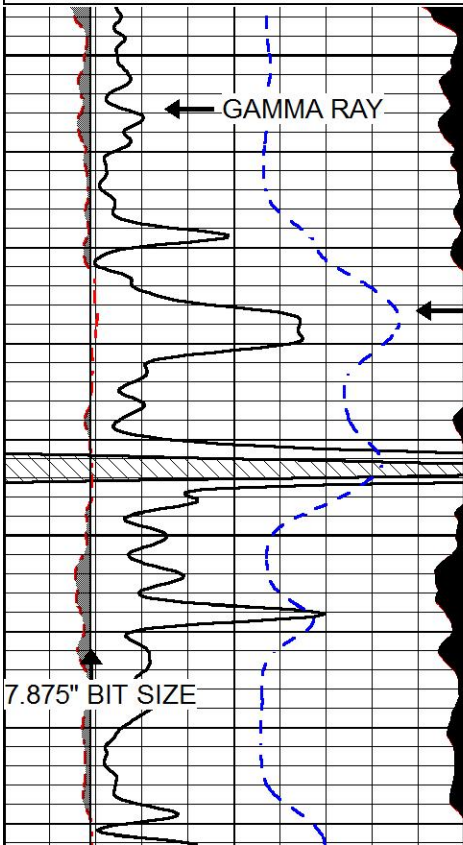


MAIN PASS

Database File stratakan_seward sw_1-1.db
 Dataset Pathname STKML/pass3.1
 Presentation Format micro
 Dataset Creation Fri Mar 31 20:09:00 2017
 Charted by Depth in Feet scaled 1:240

0	Gamma Ray (GAPI)	150
6	MCAL (in)	16
2.875	mcal (in)	7.875
6	Bit Size (in)	16
-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

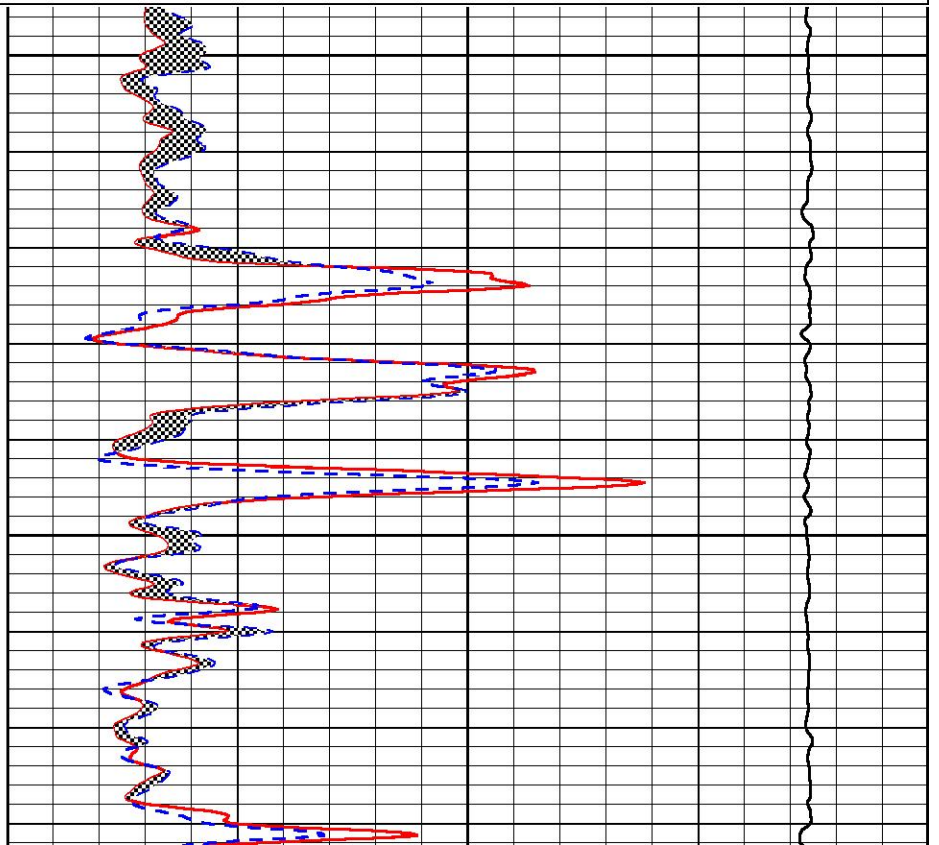


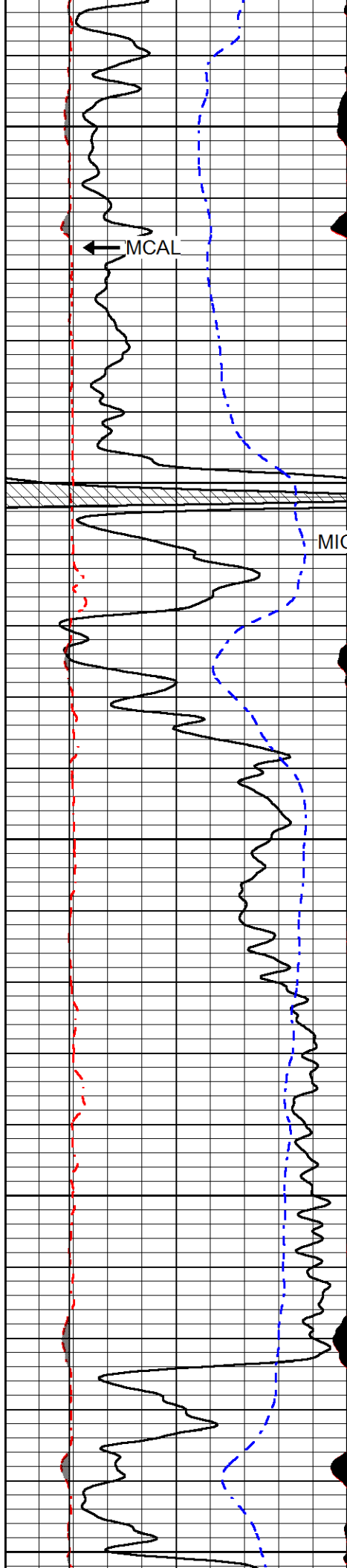
3100

SP

3150

7.875" BIT SIZE





3200

3250

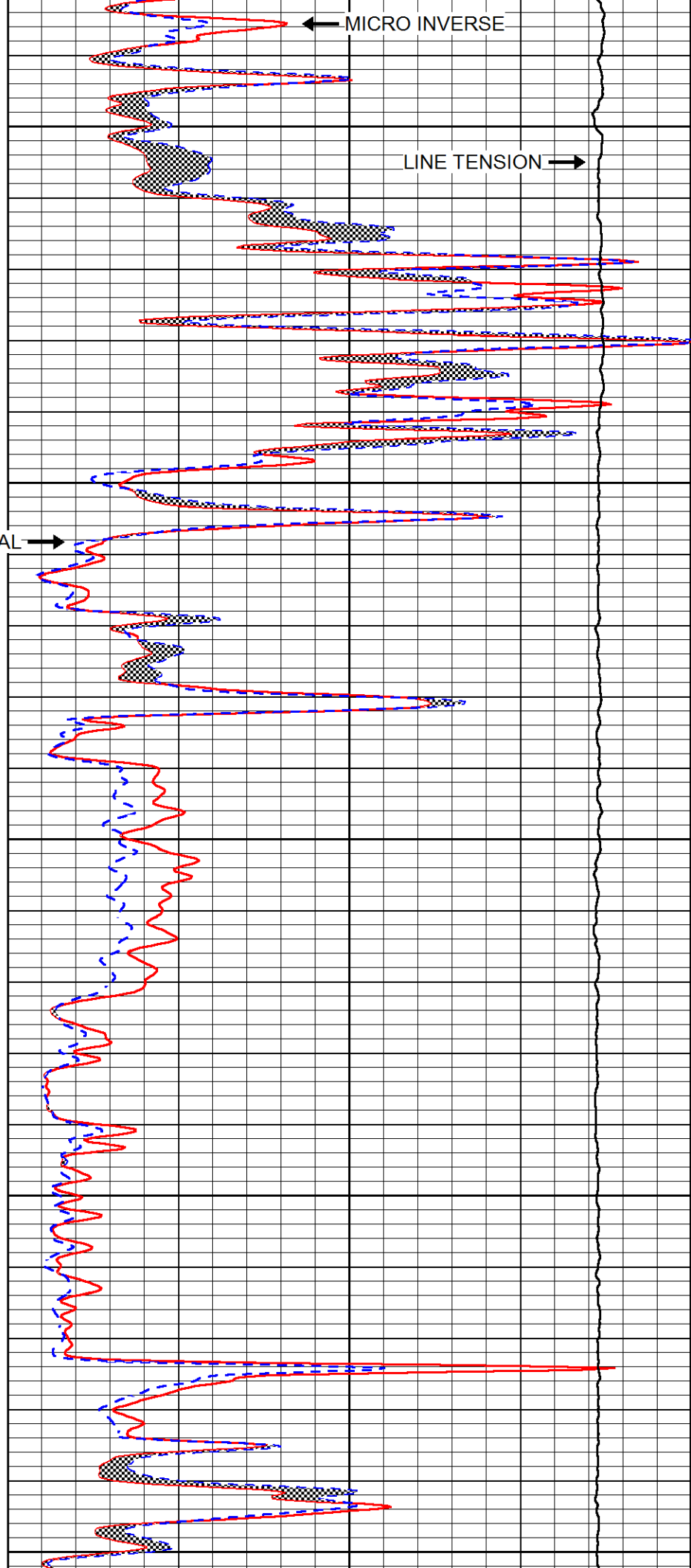
3300

3350

3400

MCAL

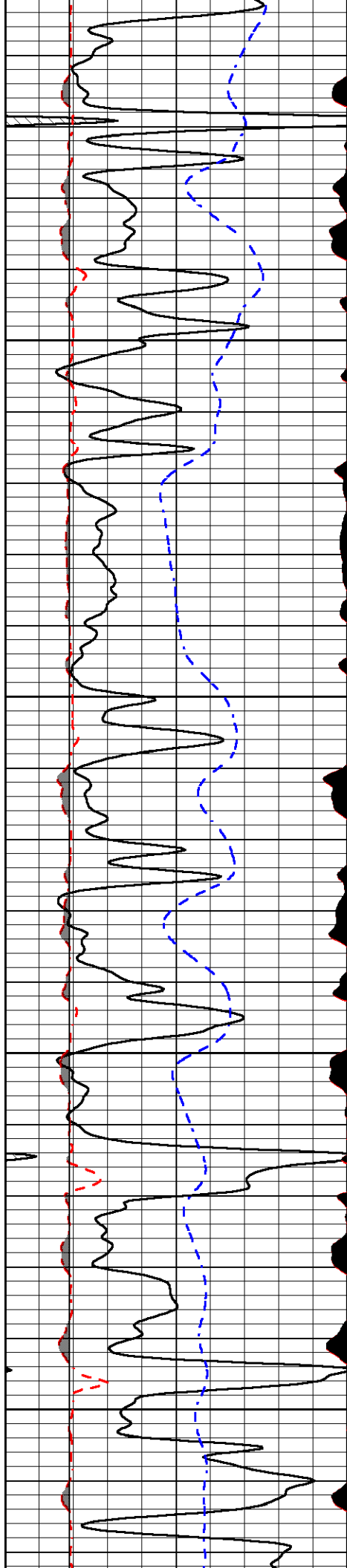
MICRO NORMAL



MICRO INVERSE

LINE TENSION

MICRO NORMAL

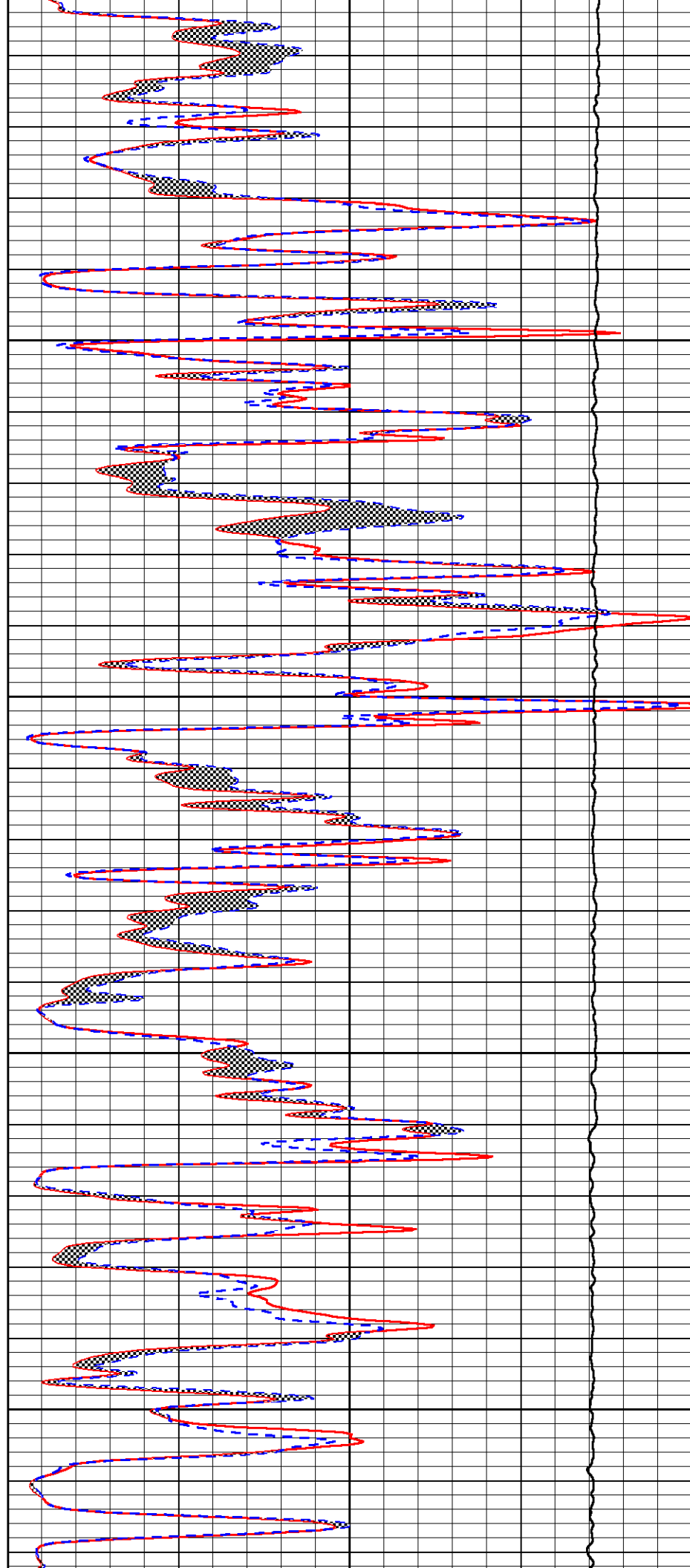


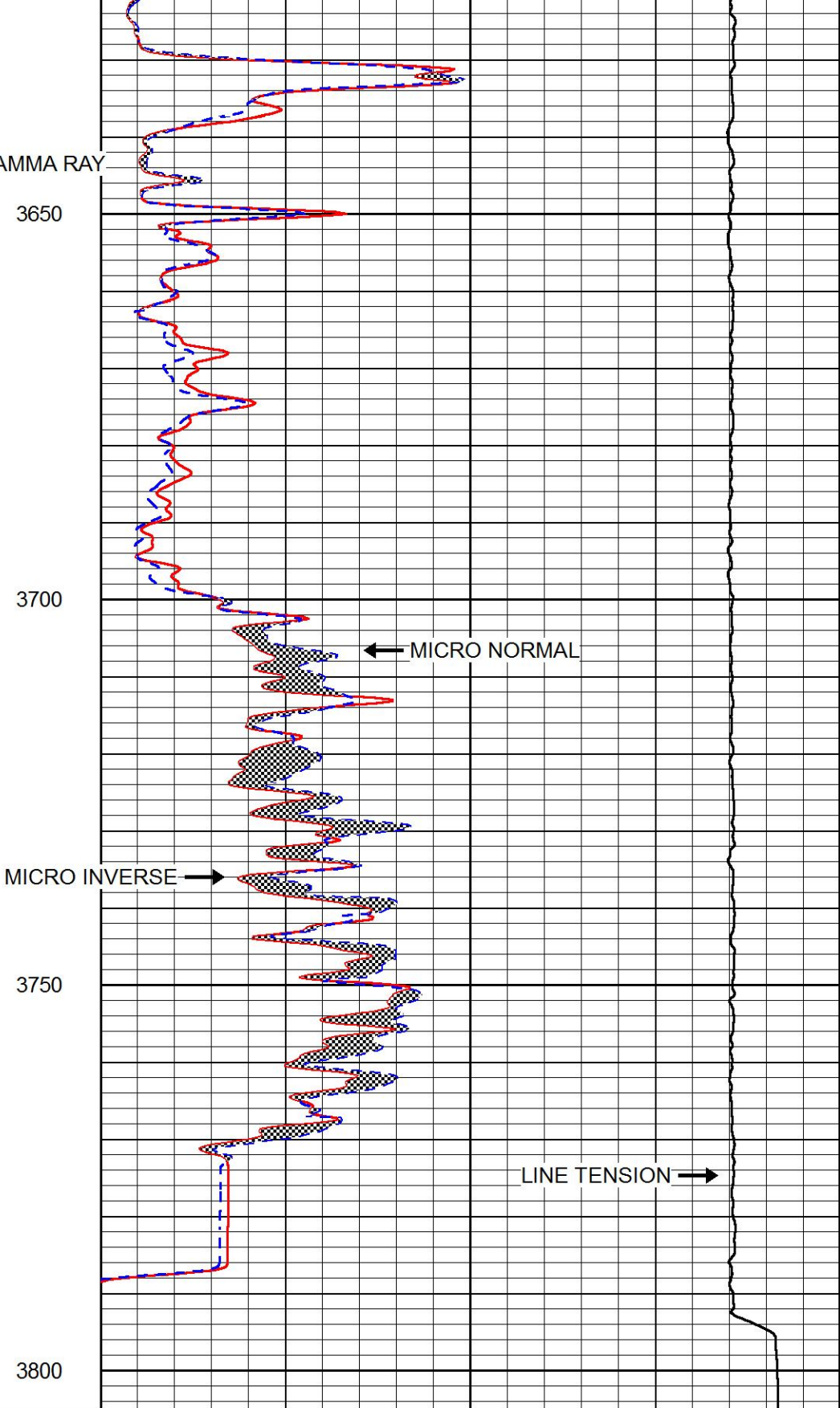
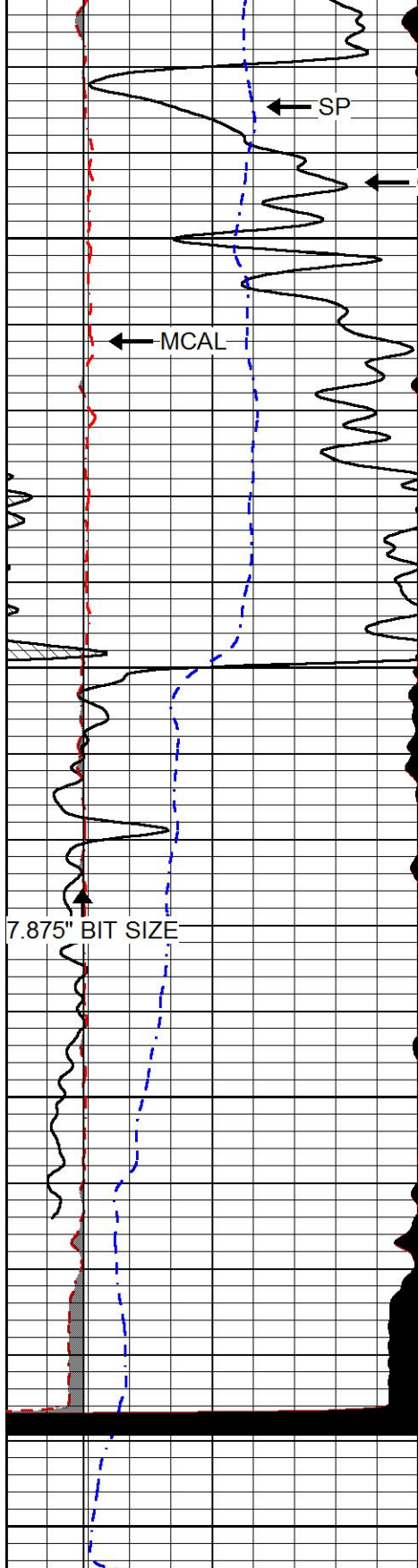
3450

3500

3550

3600





0	Gamma Ray (GAPI)	150
6	MCAL (in)	16
2.875	mcals (in)	7.875
6	Bit Size (in)	16
-200	SP (mV)	0

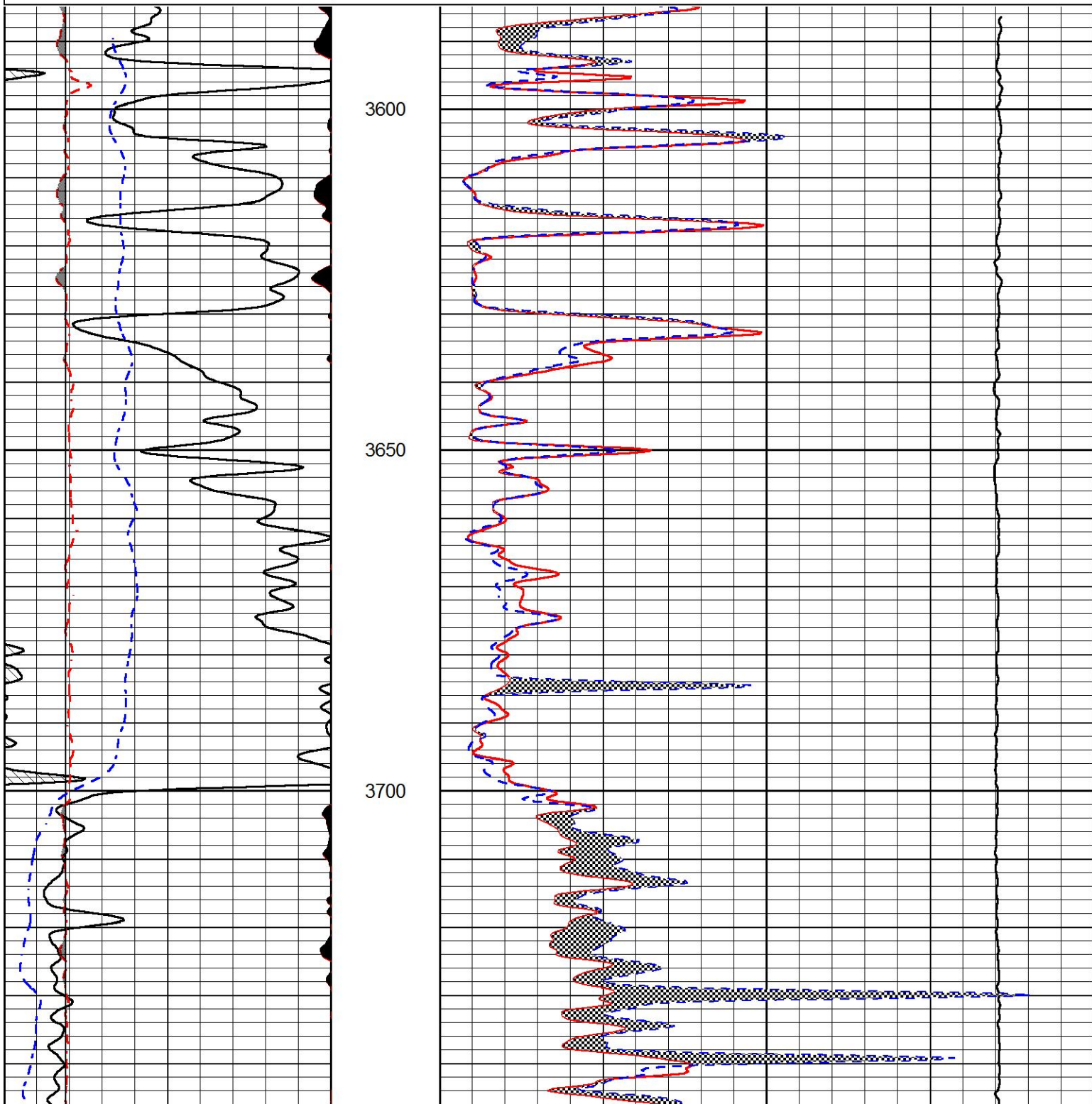
0	Micro Inverse 1 X 1 (Ohm-m)	40
0	Micro Normal 2" (Ohm-m)	40
10000	Line Weight (lb)	0

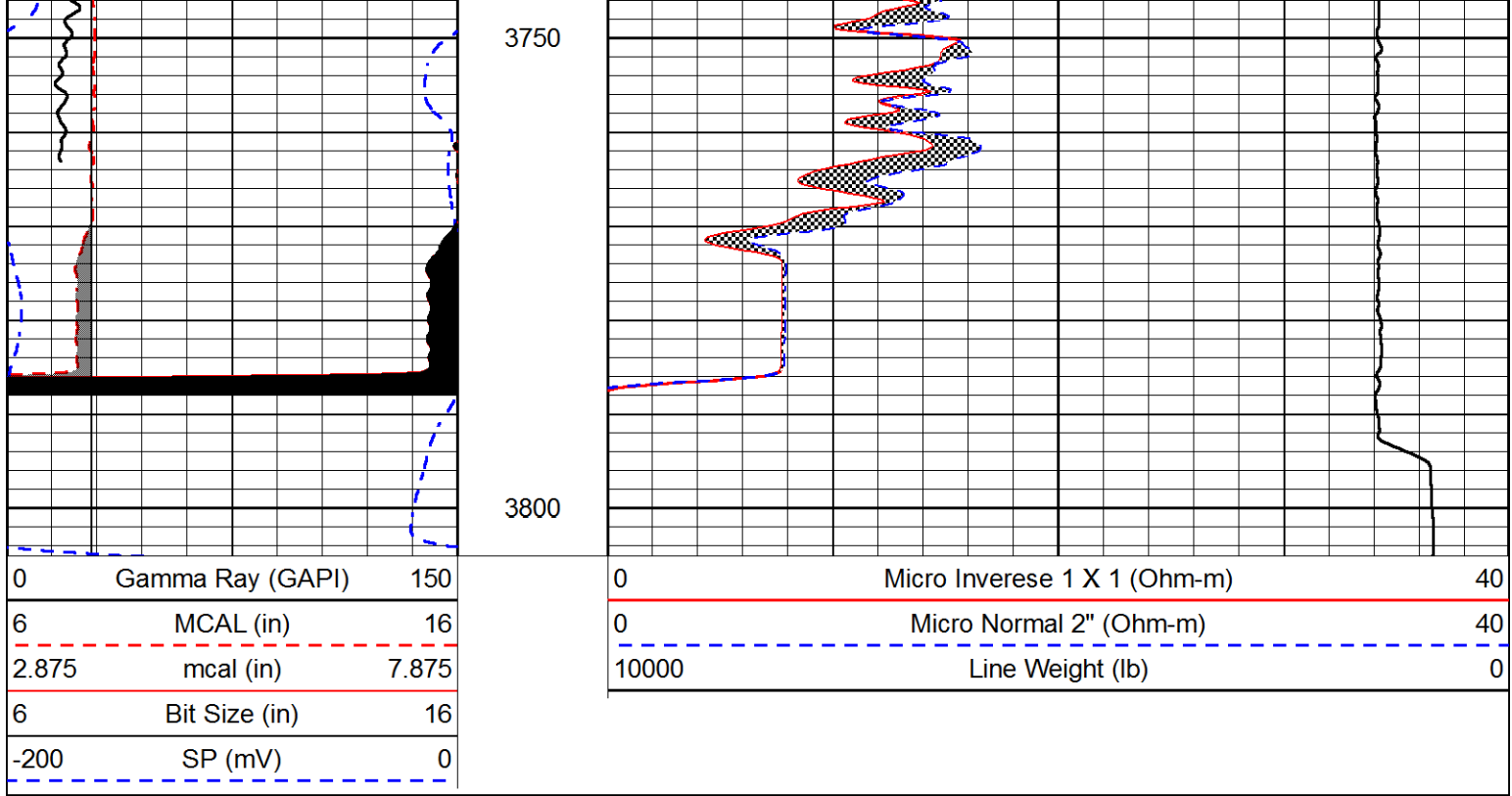


Database File stratakan_seward sw_1-1.db
Dataset Pathname STKML/pass2.1
Presentation Format micro
Dataset Creation Fri Mar 31 20:14:20 2017
Charted by Depth in Feet scaled 1:240

0	Gamma Ray (GAPI)	150
6	MCAL (in)	16
2.875	mcal (in)	7.875
6	Bit Size (in)	16
-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





Calibration Report

Database File stratakan_seward sw_1-1.db
 Dataset Pathname STKML/pass3.1
 Dataset Creation Fri Mar 31 20:09:00 2017

Dual Induction Calibration Report

Serial-Model: PSI 13-M&W
 Calibration Performed: Fri Mar 31 18:54:31 2017

Loop:	Readings		References			Results	
	Air	Loop	Air	Loop		Gain	Offset
Deep	166.796	835.089	0.000	255.800	mmho/m	0.900	-23.000
Medium	142.009	1348.560	0.000	255.800	mmho/m	0.850	15.000

Microlog Calibration Report

Serial-Model: PSI-01-PSIML
 Performed: Fri Mar 31 18:41:59 2017

	Readings		References			Results	
	Zero	Cal	Zero	Cal		m	b
Normal	0.0000	1.0000	0.0000	1.0000	Ohm-m	32500.0000	-0.9500
Inverse	0.0000	1.0000	0.0000	1.0000	Ohm-m	30000.0000	-0.3000
Caliper	1.0001	1.1397	6.5000	18.5000	in	70.0000	-65.5350

Compensated Density Calibration Report

Serial-Model: 90-1031-M&W
 Source / Verifier: 16955B / 2ci
 Master Calibration Performed: Fri Mar 31 18:42:23 2017

Master Calibration

	Density		Far Detector	Near Detector	
Magnesium	1.755	g/cc	5174.18	6425.27	cps
Aluminum	2.665	g/cc	963.17	4037.42	cps
Spine Angle = 74.55			Density/Spine Ratio = 0.522		
	Size		Reading		
Small Ring	6.00	in	1.83		
Large Ring	16.00	in	1.48		

Compensated Neutron Calibration Report

Serial Number: 207-MW
 Tool Model: M&W
 Calibration Performed: Fri Mar 31 10:30:30 2017

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: 89
 Tool Model: M&W
 Calibration Performed: Fri Mar 31 18:42:32 2017

Calibrator Value: 1.0 GAPI

Background Reading: 0.0 cps
 Calibrator Reading: 1.0 cps

Sensitivity: 0.6000 GAPI/cps



PIONEER
 Pioneer Energy Services

Company STRATAKAN EXPLORATION, LLC
 Well SEWARD SW #1-1
 Field CURTIS
 County STAFFORD
 State KANSAS

Seward SW 1-1

API # 15-185-23983-00-00

Operator: Stratakan Exploration, LLC

Well Name & No: Seward SW #1-1

Location: 1613 FSL & 405 FEL Section 1-22s-14w

County: Stafford State: Kansas

Rig No.: 14 Contractor: WW Drilling, LLC

Tool Pusher: Noel Perez 620-271-4957

Drill Collars: 14 Size 6.26 x 2.25

Rig Phone: _____

Make Pump: F-1000

Liner & Stroke: 6x14

Spud _____

Approx. TD: 3800 Elevation: 1,912 G.L.

1923 KB

Hole Complete: 3/31/17 @ 2:15 PM

Mud Co.: _____

Mud Engineer: _____

Water Well _____

Date	03/24/17	03/25/17	03/28/17	03/29/17	03/30/17	03/31/17	04/01/17	04/02/17		
Days	1-spud	2-OFF	3-Drlg	4 Drlg	5-TIHw/bit	6-Drlg	7-run 5 1/5	8-Done		
Depth		404	2100	3100	3467	3611	3800	3800		
Ft. Cut		404	1696	1050	317	144	189			
D.T.										
D.T.			0.25							
C.T.		8	3	0.5	15.25	19.25	19.75	7.25		
Bit Wt.	all	12,000	30,000	38,000	38,000	38,000	40,000			
RPM	100	100	85	85	80	80	80			
Pressure	450	550	1000	1000	1000	1000	1100			
SPM	60	60	60	60	60	60	60			
Mud Cost					8,061	8,060	9292	9292		
Mud Wt.		9.3	9.5	9.1	9	9.2	9.2			
Viscosity		34	32	55	53	60	49			
Water Loss					8	8	15			
Chlorides					2800	4000	9000			
L.C.M.		1#		2#	1.5 #	1#	1#			
Dev. Sur		.75°-404			1.25°-3467	1.5°-3611	1.75°-3800			
Dev. Sur										
Fuel		5508	5022	4455	4050	3635	3200	3150		
Water-Pit			FULL	FULL	Full	FULL	6'			
ACC Bit Hrs.		3.25	19.75	33	51.75	56.5	60.75			
Formation	sd-sh	sd-sh	sd-sh	sh-lm	sh-lm	sh-lm	sh-lm			
Weather		Clear	Cloudy	Rain	Cloudy		rain			

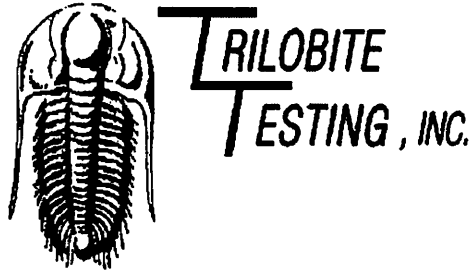
No.	Size	Type	Out	Ft.	Hrs.	Cum Hrs.	Bit Cond	Serial #	Tops
1	12 1/4	Sm-tooth	404	404	3.25	3.25	RR	3653	
2	7 7/8	Varel	3800	3396	60.75	64		1387950	
3									
4									

DEPTH	SIZE	SACKS	CEMENT MATERIAL	PLUG DOWN	DRILLED OUT	REMARKS
404	8 5/8	450	Common, 3% cc & 2% gel	3:00 PM		Quality Did Circulate
			30- Rat 20-Mouse			
3791.59	5 1/2"	140	Q PRO C	10:15 AM	2:15 PM	Quality

NO	INTERVAL	OPEN	SHUT	OPEN	SHUT	RECOVERY
1	3403'-3467'	30	45	30	45	120' MUD
2	3504'-3611'	30	45	30	45	248' Water 124' WCM 20' OCM
3						
4						
5						
6						
7						
8						
9						

Surface Casing Furnished by: Smith Supply. Ran 9 joints of 8 5/8" used 32# tally 389.97' set @ 404'

Remarks: Strap & weld surface by WW Kieth. Anhydrite @ 786'-821'. Displaced @ 2599' (550 bbls). Short trip @ 3467' (31 stands) 2.25 hrs. Pipe strap .64 long. LTD 3793, logged by Pioneer (3.75hrs) Ran 115 jts of 5 1/2 tallied 3781.59 set @ 3791. Plug down @ 10:15 am, Released rig @ 2:15 PM.



DRILL STEM TEST REPORT

Prepared For: **StrataKan Exploration**

204 W Mill St
Plainville, KS 67603

ATTN: Justin Prater

Seward SW #1-1

1-22s-14w Stafford,KS

Start Date: 2017.03.30 @ 00:15:40

End Date: 2017.03.30 @ 07:02:10

Job Ticket #: 59930 DST #: 1

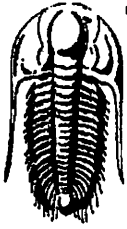
Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2017.04.03 @ 08:18:30

StrataKan Exploration 1-22s-14w Stafford,KS Seward SW #1-1 DST # 1 LKC "B-F" 2017.03.30



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

StrataKan Exploration

1-22s-14w Stafford,KS

204 W Mill St
Plainville, KS 67603

Seward SW #1-1

Job Ticket: 59930

DST#: 1

ATTN: Justin Prater

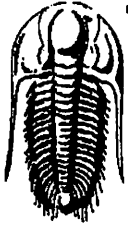
Test Start: 2017.03.30 @ 00:15:40

Tool Information

Drill Pipe:	Length: 3270.00 ft	Diameter: 3.80 inches	Volume: 45.87 bbl	Tool Weight: 2100.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 118.00 ft	Diameter: 2.25 inches	Volume: 0.58 bbl	Weight to Pull Loose: 60000.00 lb
			<u>Total Volume: 46.45 bbl</u>	Tool Chased ft
Drill Pipe Above KB:	4.00 ft			String Weight: Initial 52000.00 lb
Depth to Top Packer:	3403.00 ft			Final 52000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	64.00 ft			
Tool Length:	83.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Shut In Tool	5.00			3389.00	
Hydraulic tool	5.00			3394.00	
Packer	5.00			3399.00	19.00 Bottom Of Top Packer
Packer	4.00			3403.00	
Stubb	1.00			3404.00	
Recorder	0.00	8159	Inside	3404.00	
Recorder	0.00	6806	Outside	3404.00	
Perforations	5.00			3409.00	
Change Over Sub	1.00			3410.00	
Drill Pipe	32.00			3442.00	
Change Over Sub	2.00			3444.00	
Perforations	20.00			3464.00	
Bullnose	3.00			3467.00	64.00 Bottom Packers & Anchor
Total Tool Length:		83.00			



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

StrataKan Exploration

1-22s-14w Stafford,KS

204 W Mill St
Plainville, KS 67603

Seward SW #1-1

Job Ticket: 59930

DST#: 1

ATTN: Justin Prater

Test Start: 2017.03.30 @ 00:15:40

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: 53.00 sec/qt

Cushion Volume: bbl

Water Loss: 7.99 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure: psig

Salinity: 2800.00 ppm

Filter Cake: 0.02 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
120.00	SGCM 2%G 98%M	0.608

Total Length: 120.00 ft Total Volume: 0.608 bbl

Num Fluid Samples: 0

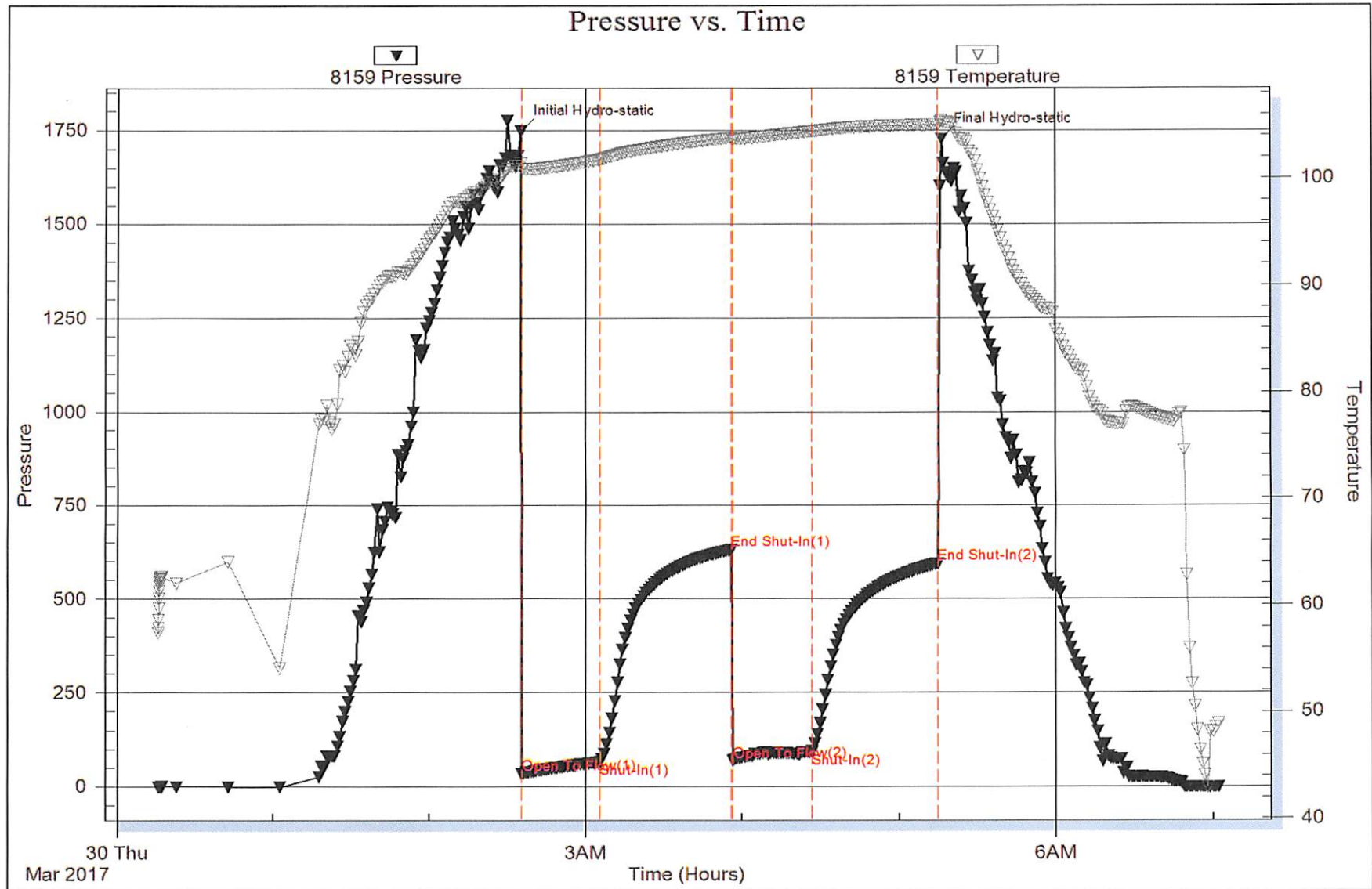
Num Gas Bombs: 0

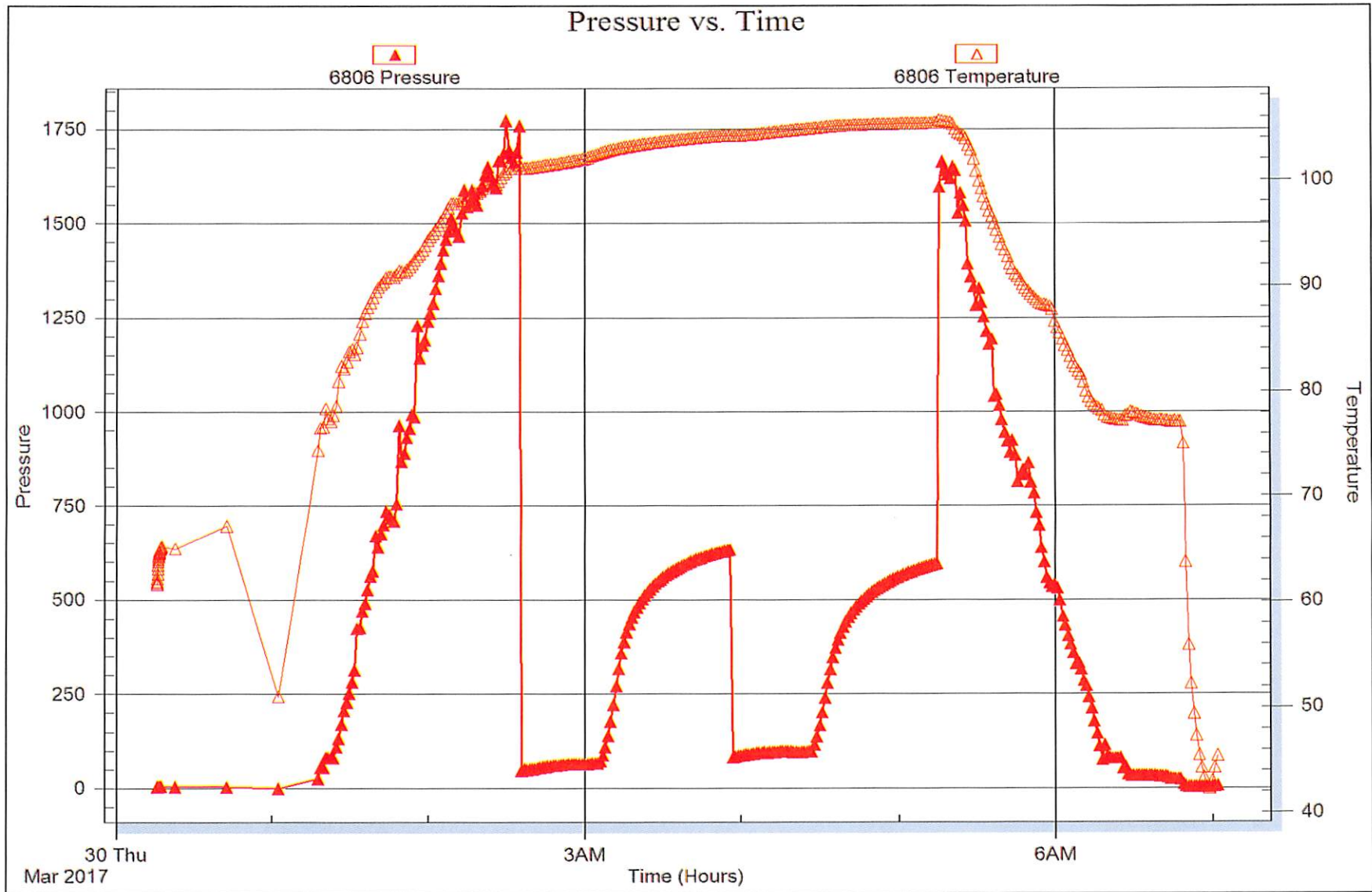
Serial #:

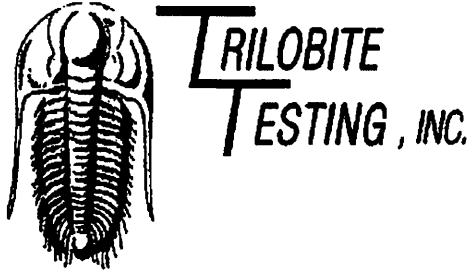
Laboratory Name:

Laboratory Location:

Recovery Comments:







DRILL STEM TEST REPORT

Prepared For: **StrataKan Exploration**

204 W Mill St
Plainville, KS 67603

ATTN: Justin Prater

Seward SW #1-1

1-22s-14w Stafford,KS

Start Date: 2017.03.30 @ 21:37:56

End Date: 2017.03.31 @ 04:12:56

Job Ticket #: 59931 DST #: 2

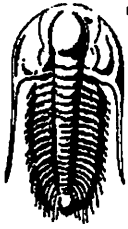
Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2017.04.03 @ 08:17:46

StrataKan Exploration 1-22s-14w Stafford,KS Seward SW #1-1 DST # 2 Lower KC 2017.03.30



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

StrataKan Exploration

1-22s-14w Stafford, KS

204 W Mill St
Plainville, KS 67603

Seward SW #1-1

Job Ticket: 59931

DST#: 2

ATTN: Justin Prater

Test Start: 2017.03.30 @ 21:37:56

GENERAL INFORMATION:

Formation: **Lower KC**

Deviated: **No** Whipstock: **ft (KB)**

Time Tool Opened: 23:36:56

Time Test Ended: 04:12:56

Test Type: **Conventional Bottom Hole (Reset)**

Tester: **Leal Cason**

Unit No: **74**

Interval: **3504.00 ft (KB) To 3611.00 ft (KB) (TVD)**

Total Depth: **3611.00 ft (KB) (TVD)**

Hole Diameter: **7.88 inches** Hole Condition: **Good**

Reference Elevations: **1925.00 ft (KB)**

1912.00 ft (CF)

KB to GR/CF: **13.00 ft**

Serial #: 8159

Inside

Press@RunDepth: **249.70 psig @ 3505.00 ft (KB)**

Start Date: **2017.03.30**

End Date:

2017.03.31

Start Time: **21:37:57**

End Time:

04:12:56

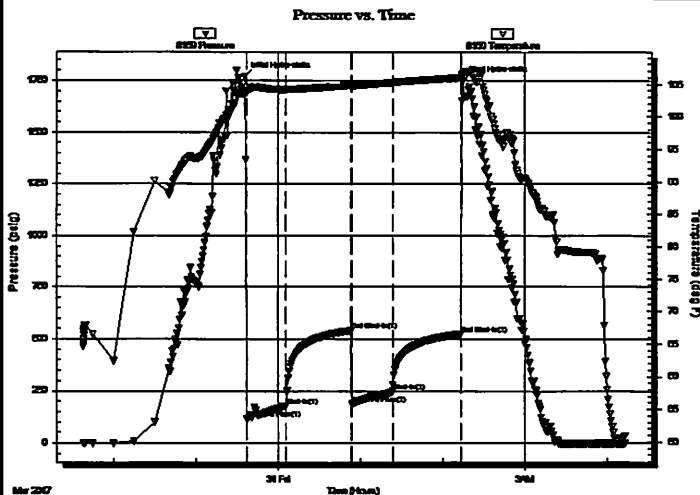
Capacity: **8000.00 psig**

Last Calib.: **2017.03.31**

Time On Btm: **2017.03.30 @ 23:35:41**

Time Off Btm: **2017.03.31 @ 02:14:41**

TEST COMMENT: IF: Strong Blow , BOB in 6 minutes
IS: No Blow Back
FF: Strong Blow , BOB in 8 minutes
FS: Weak Surface Blow Back



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1768.37	103.61	Initial Hydro-static
2	115.12	103.66	Open To Flow (1)
30	179.32	104.13	Shut-In(1)
78	540.26	104.79	End Shut-In(1)
78	188.76	104.71	Open To Flow (2)
108	249.70	105.21	Shut-In(2)
158	524.52	105.98	End Shut-In(2)
159	1750.40	106.53	Final Hydro-static

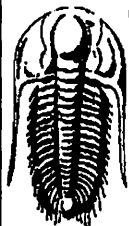
Recovery

Length (ft)	Description	Volume (bbl)
248.00	Water	2.40
124.00	MCW 30%M 70%W	1.74
20.00	SOCM 2%O 98%M	0.28

* Recovery from multiple tests

Gas Rates

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



**TRIOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

StrataKan Exploration

1-22s-14w Stafford,KS

204 W Mill St
Plainville, KS 67603

Seward SW #1-1

Job Ticket: 59931

DST#: 2

ATTN: Justin Prater

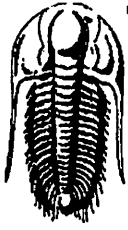
Test Start: 2017.03.30 @ 21:37:56

Tool Information

Drill Pipe:	Length: 3364.00 ft	Diameter: 3.80 inches	Volume: 47.19 bbl	Tool Weight: 2100.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 118.00 ft	Diameter: 2.25 inches	Volume: 0.58 bbl	Weight to Pull Loose: 60000.00 lb
			<u>Total Volume: 47.77 bbl</u>	Tool Chased ft
Drill Pipe Above KB:	4.00 ft			String Weight: Initial 52000.00 lb
Depth to Top Packer:	3504.00 ft			Final 54000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	107.00 ft			
Tool Length:	133.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Shut In Tool	5.00			3483.00	
Hydraulic tool	5.00			3488.00	
Jars	5.00			3493.00	
Safety Joint	2.00			3495.00	
Packer	5.00			3500.00	26.00 Bottom Of Top Packer
Packer	4.00			3504.00	
Stubb	1.00			3505.00	
Recorder	0.00	8159	Inside	3505.00	
Recorder	0.00	6806	Outside	3505.00	
Perforations	7.00			3512.00	
Change Over Sub	1.00			3513.00	
Drill Pipe	64.00			3577.00	
Change Over Sub	2.00			3579.00	
Perforations	29.00			3608.00	
Bullnose	3.00			3611.00	107.00 Bottom Packers & Anchor
Total Tool Length:	133.00				



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

StrataKan Exploration

1-22s-14w Stafford,KS

204 W Mill St
Plainville, KS 67603

Seward SW #1-1

Job Ticket: 59931

DST#: 2

ATTN: Justin Prater

Test Start: 2017.03.30 @ 21:37:56

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:

78000 ppm

Viscosity: 53.00 sec/qt

Cushion Volume:

bbl

Water Loss: 7.98 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 2800.00 ppm

Filter Cake: 0.02 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
248.00	Water	2.404
124.00	MCW 30%M 70%W	1.739
20.00	SOCM 2%O 98%M	0.281

Total Length: 392.00 ft Total Volume: 4.424 bbl

Num Fluid Samples: 0

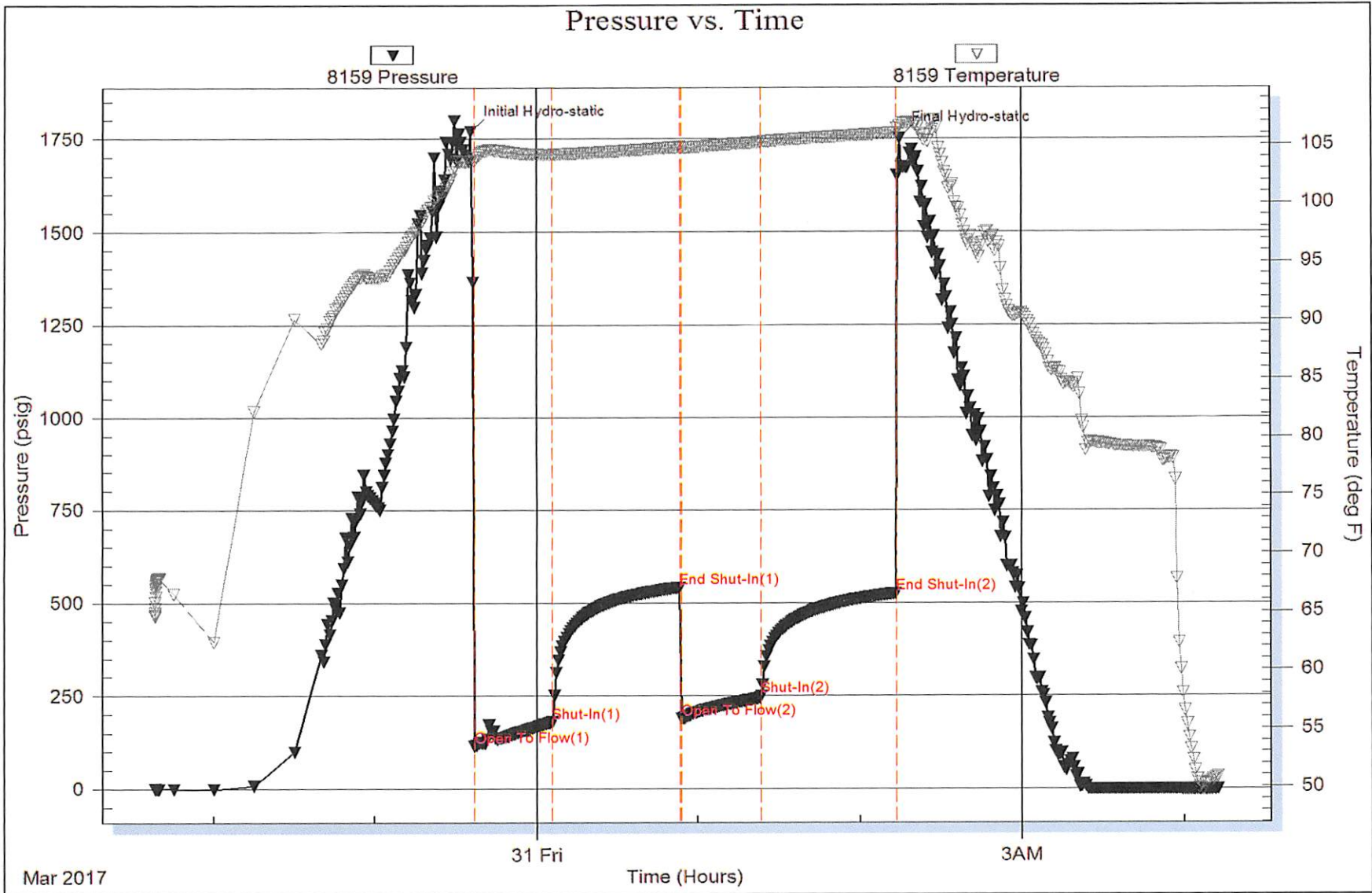
Num Gas Bombs: 0

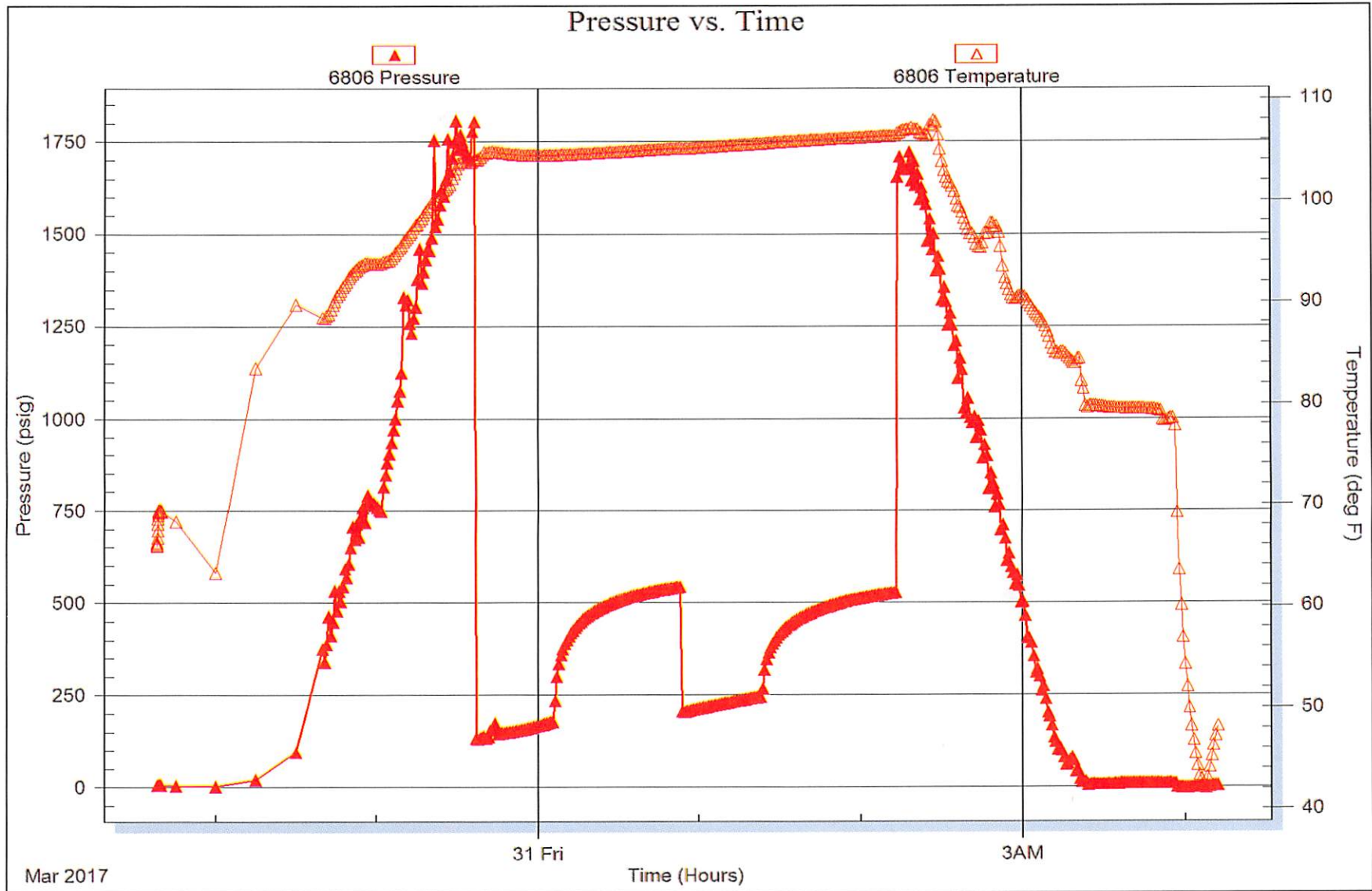
Serial #:

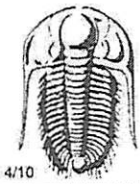
Laboratory Name:

Laboratory Location:

Recovery Comments: RW w as .15 @ 46 degrees







TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. **59930**

Well Name & No. Seward Sw 1-1 Test No. 1 Date 03/29/17
 Company Stratakan Exploration Elevation 1925 KB 1912 GL
 Address 204 W. Mill St Plainville, KS 67603
 Co. Rep / Geo. Justin Prater Rig WW 14
 Location: Sec. 1 Twp. 22S Rge. 14W Co. Stafford State KS

Interval Tested 3403 - 3467 Zone Tested Lansing "B-F"
 Anchor Length 64 Drill Pipe Run 3270 Mud Wt. 9.0
 Top Packer Depth 3398 Drill Collars Run 118 Vis 53
 Bottom Packer Depth 3403 Wt. Pipe Run 0 WL 8.0
 Total Depth 3467 Chlorides 2800 ppm System LCM 1.5

Blow Description IF: Strong Blow, BOB in 21 minutes
ISI: NO Blow BACK
FF: Weak 4 inch Blow
FSI: NO Blow BACK

Rec	Feet of	%gas	%oil	%water	%mud
<u>120</u>	<u>SGCM</u>	<u>2</u>		<u>98</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

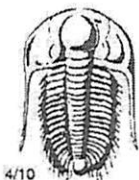
Rec Total 120 BHT 105 Gravity NIC API RW NIC @ NIC °F Chlorides NIC ppm

(A) Initial Hydrostatic 1745 Test 1050 T-On Location 21:30
 (B) First Initial Flow 34 Jars _____ T-Started 00:15
 (C) First Final Flow 65 Safety Joint _____ T-Open 02:35
 (D) Initial Shut-In 630 Circ Sub _____ T-Pulled 05:14
 (E) Second Initial Flow 68 Hourly Standby _____ T-Out 07:02
 (F) Second Final Flow 91 Mileage 70 52.50 Comments _____
 (G) Final Shut-In 593 Sampler _____
 (H) Final Hydrostatic 1726 Straddle _____

Initial Open 30 Shale Packer _____ Ruined Shale Packer _____
 Initial Shut-In 45 Extra Packer _____ Ruined Packer _____
 Final Flow 30 Extra Recorder _____ Extra Copies _____
 Final Shut-In 45 Day Standby _____ Sub Total 0
 Sub Total 1102.50 Accessibility _____ Total 1102.50
 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. 59931

Well Name & No. Seward SW 1-1 Test No. 2 Date 03/30/17
 Company Strata Kan Exploration Elevation 1925 KB 1912 GL
 Address 204 W. Mill St Plainville, KS 67603
 Co. Rep / Geo. Justin Proter Rig WW 14
 Location: Sec. 1 Twp. 22S Rge. 14W Co. Stufford State KS

Interval Tested 3504 - 3611 Zone Tested LOWER KC
 Anchor Length 107 Drill Pipe Run 3364 Mud Wt. 9.2
 Top Packer Depth 3499 Drill Collars Run 118 Vis 64
 Bottom Packer Depth 3504 Wt. Pipe Run 0 WL 8
 Total Depth 3611 Chlorides 4000 ppm System LCM 1

Blow Description IF: Strong Blow, BOB in 6 minutes
ISI: No Blow Back
FF: Strong Blow, BOB in 8 minutes
FST: weak surface Blow Back

Rec	Feet of	%gas	%oil	%water	%mud
<u>20</u>	<u>SOCM</u>	<u>2</u>		<u>98</u>	
<u>124</u>	<u>MCW</u>			<u>70</u>	<u>30</u>
<u>248</u>	<u>water</u>				

Rec Total 392 BHT 106 Gravity NIC API RW .15 @ 46 °F Chlorides 78,000 ppm

(A) Initial Hydrostatic <u>1768</u>	<input checked="" type="checkbox"/> Test <u>1050</u>	T-On Location <u>20:30</u>
(B) First Initial Flow <u>115</u>	<input checked="" type="checkbox"/> Jars <u>250</u>	T-Started <u>21:37</u>
(C) First Final Flow <u>179</u>	<input checked="" type="checkbox"/> Safety Joint <u>75</u>	T-Open <u>23:36</u>
(D) Initial Shut-In <u>540</u>	<input type="checkbox"/> Circ Sub	T-Pulled <u>02:13</u>
(E) Second Initial Flow <u>189</u>	<input type="checkbox"/> Hourly Standby	T-Out <u>04:12</u>
(F) Second Final Flow <u>250</u>	<input checked="" type="checkbox"/> Mileage <u>70</u> 52.50	Comments
(G) Final Shut-In <u>524</u>	<input type="checkbox"/> Sampler	
(H) Final Hydrostatic <u>1750</u>	<input type="checkbox"/> Straddle	<input type="checkbox"/> Ruined Shale Packer

Initial Open <u>30</u>	<input type="checkbox"/> Shale Packer	<input type="checkbox"/> Ruined Packer
Initial Shut-In <u>45</u>	<input type="checkbox"/> Extra Packer	<input type="checkbox"/> Extra Copies
Final Flow <u>30</u>	<input type="checkbox"/> Extra Recorder	Sub Total <u>0</u>
Final Shut-In <u>45</u>	<input type="checkbox"/> Day Standby	Total <u>1427.50</u>
	<input type="checkbox"/> Accessibility	MP/DST Disc't
	Sub Total <u>1427.50</u>	

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.

STRATAKAN EXPLORATION, LLC
 Seward SW #1-1
 1613' FSL & 405' FEL Sec 1-22S-14W
 Stafford Co., Kansas

1912' GL
 1923' KB

Report: Complete in Arb

04-13-17 Matt's Cat leveled location after MO WW Rig #14. MIRU DS&W Well Svc DD & Honas Tank Svc swab tank. SDFN

04-14-17 RIH w/ sandpump & CO to BPTD @ 3751'. RU Pioneer Energy Svc, ran CBL w/ good cement bond throughout. PBTB 3751' & TOC @ 2640'. Swab fluid down to 2700', perf Arb 3720-22'(2') w/ 4" Expendable gun 4 spf. When coming out w/ gun had 50' fluid entry. Let set 30 min, 1" pull FL @ 1800', 900'(21.42 bbl) fluid entry w/ good show oil. Let set 1 hr, FL @ 1250', 550'(13.09 bbl) fluid entry. Swab test as follows:

Time	bbbl	cum	%	comments
1 st hr	15.08	15.08	9-3	FL 1250', 2-250' pulls, fresh water
2 nd hr	15.08	30.16	3-1	FL 1250', 2-250' pulls, salty water 2 nd pull
3 rd hr	14.50	44.66	1	FL 1250', 2-250' pulls, salty water, muddy oil
4 th hr	63.20	107.86	1	FL 2750', swb stdy, muddy oil
5 th hr	64.90	172.76	1	FL 2900', swb stdy, muddy oil

SDFN & Weekend

DS&W	\$ 3000.00	(4/13,14/17)
Wildcat Pump	\$12195.00	
Honas	\$ 850.00	
Scheck	\$ 1000.00	
Pioneer	\$ 2355.00	
Bob's Hauling	\$ 170.00	
Popp	\$ 600.00	
Total	\$20170.00	Cum \$20170.00

04-17-17 FL @ 850', 2870' FIH w/ 100' clean gassy oil(3%). RU Pioneer Energy Svc, set CIBP @ 3718'. Swab fluid down to 2700', perf Arb 3701-03' w/ 4" Expendable gun 4 spf w/ no fluid entry. Swab test as follows:

1 st hr	23.10	23.10	22	FL 3650', 4 pulls
2 nd hr	2.90	26.00	95	FL 3600', 2 pulls, No Visible Water
3 rd hr	1.16	27.16	95	FL 3610', 2 pulls, NVW
4 th hr	1.70	28.76	95	FL 3610', 2 pulls, NVW
5 th hr	2.00	30.76	95	FL 3610', 2 pulls, NVW

Seward SW #1-1

6th hr 1.70 32.46 95 FL 3610', 2 pulls, NVW
 7th hr 2.00 34.46 95 FL 3610', 2 pulls, NVW
 SDFN

DS&W \$ 2400.00
 Bob's Hauling \$ 350.00
 Pioneer \$ 2200.00
 Popp \$ 600.00
 Total \$ 5550.00 Cum \$25720.00

04-18-17 FL @ 2800', 850' FIH w/ 700' oil(82%). TIH w/ tbg as follows:

			Set @
2-7/8" 8rd EUE TP MA	1jt	14.90'	3724.32'
2-7/8" 8rd SN	1jt	1.10'	3709.42'
2-7/8" 8rd EUE tbg	116jts	3695.32'	3708.32'
2-7/8" 8rd EUE tbg subs	1jts	4.00'	13.00'
Below KB		9.00'	

Landed tbg 5' off bottom. Dump 5 gal corrosion inhibitor via tbg to run pump & rods through. TIH w/ pump & rods as follows:

2 1/2"x 1 1/2"x 14' RWB w/ 6' GA
 3/4"x 2' pony rod w/ pump guide
 7 - 1 1/2"x 25' sinker bars
 70 - 3/4"x 25' sucker rods
 69 - 7/8"x 25' sucker rods
 7/8"x 4' pony rods
 1 1/4"x 22' PR w/ 10' PRL

Longstroke well w/ good pump action, space out pump & clamp off.
 RDMO DD

DS&W \$ 2000.00
 Wildcat \$20944.00
 Popp \$ 600.00
 Total \$23544.00 Cum \$49264.00

STRATAKAN EXPLORATION, LLC

Seward SW #1-1

1613' FSL & 405' FEL Sec 1-22S-14W

Stafford Co., Kansas

1912' GL

1923' KB

Completion Report - Run production csg

04-01-17 7:00 am – Wait on completion rig, Cut 3800' of 7-7/8" hole. RU Pioneer Energy Svc, ran Dual Compensated Porosity, Dual Induction, Sonic & Microresistivity Logs, LTD – 3793'. TIH w/ bit, CTCH, LDDP & ND. Ran 114 jts of Used Smith Supply 5 1/2" 8rd 15.5# J-55 R-2&3 LTC csg. Tallied 3781.59', set @ 4791', 2' off bottom. Shoe jt 32.65' w/ latch down @ 3758'. Ran turbolizer/centrilizers @ 3758', 3720', 3688', 3655', 3639', 3606' & 3575'. RU Quality Oilwell Cementing & cemented w/ 12 bbl mud flush, 20 bbl 2% KCL followed w/ 140 sx Q PRO C cement. Had good circulation throughout. Landed plug @ 10:15 am 4/01/17 w/ 1500# - latch down held. Plug rat hole w/ 30 sx cement & mouse hole w/ 20 sx cement. Set slips & release rig @ 12:15 pm 4/01/17. Equipment left on location, 4 jt csg = 116.55' threads off.

QUALITY OILWELL CEMENTING, INC.

Federal Tax I.D.# 20-2886107

Phone 785-483-2025
Cell 785-324-1041

Home Office P.O. Box 32 Russell, KS 67665

No. 1690

Date	4-1-17	Sec.	1	Twp.	22	Range	14	County	Stafford	State	Ks	On Location		Finish	10:15AM
------	--------	------	---	------	----	-------	----	--------	----------	-------	----	-------------	--	--------	---------

Location 281 + K-19 Hwy-36, 1/2 N, W1 into

Lease	Seward SW	Well No.	1-1	Owner	To Quality Oilwell Cementing, Inc. You are hereby requested to rent cementing equipment and furnish cementer and helper to assist owner or contractor to do work as listed.
Contractor	WW14				
Type Job	Longstring				
Hole Size	7 7/8"	T.D.	3800'	Charge To	Stratagan Exploration
Csg.	5 1/2" New	Depth	3791.59'	Street	
Tbg. Size		Depth		City	State
Tool		Depth		The above was done to satisfaction and supervision of owner agent or contractor.	
Cement Left in Csg.	32.65	Shoe Joint	32.65'	Cement Amount Ordered	190 @ Pro C 10% Salt 5' G. lonite
Meas Line		Displace	89 1/2 BCS	500 gal mud Clear 48 - 110 BCS KCL	

EQUIPMENT

Pumptrk	16	No.		Cementer	Brett	Common	190 Pro-C
				Helper		Poz. Mix	
Bulktrk	3	No.		Driver	David	Gel.	
				Driver		Calcium	KCL 11 gal
Bulktrk	p.u.	No.		Driver	Rick	Hulls	

JOB SERVICES & REMARKS

Remarks:		Salt	17
Rat Hole		Flowseal	
Mouse Hole		Kol-Seal	800#
Centralizers	1-7	Mud CLR	48
Baskets	pipe on bottom break Circulation	CFL-117 or CD110 CAF	38
D/V or Port Collar	pump 50 gal mud Clear 48	Sand	
Pump	20 BCS ket plug Rethole w/ 30sx	Handling	215
plug	manhole w/ 20 sx Hook to casing	Mileage	
& mix	100 sx cement. Shut down	FLOAT EQUIPMENT	
wash pump & lines	Displaced plug	Guide Shoe	
w/ 89 1/2 BCS	Released & held.	Centralizer	7

Lift pressure	700 #	Baskets	
Land plug to	1500 #	AFU Inserts	
		Float Shoe	
		Latch Down	

Pumptrk Charge	prod string
Mileage	19

Signature <i>Archie Papp</i>	Tax	
	Discount	
	Total Charge	

GENERAL TERMS AND CONDITIONS

DEFINITIONS: In these terms and conditions, "Quality" shall mean Quality Oilwell Cementing, Inc., and "Customer" shall refer to the party identified by that term on the front of this contract. As applicable, "Job" relates to the services described on the front side of this contract, "merchandise" refers to the material described on the front of this contract and to any other materials, products, or supplies used, sold, or furnished under the requirements of this contract.

– **TERMS:** Unless satisfactory credit has been established, "CUSTOMER" must tender full cash payment to "QUALITY" before the job is undertaken or merchandise is delivered. If satisfactory credit has been established, the terms of payment for the job and/or merchandise, including bulk cement, are net cash, payable in 30 days from the completion of the job and/or delivery of the merchandise. For all past due invoices, "CUSTOMER" agrees to pay interest on amounts invoiced at a rate of 18 percent per annum until paid. Notwithstanding the foregoing in no event shall this Contract provide for interest exceeding the maximum rate of interest that "CUSTOMER" may agree to pay under applicable law. If any such interest should be provided for, it shall be and hereby is deemed to be a mistake, and this contract shall be automatically reformed to lower the rate of interest to the maximum legal contract rate, any amounts previously paid as excess interest shall be deducted from the amounts owing from the "CUSTOMER" or at the option of "QUALITY," refunded directly to "CUSTOMER." For purposes of this paragraph, QUALITY and CUSTOMER agree that KANSAS law shall apply. Any discounts granted with this contract are null and void if the charges are not paid when due.

– **ATTORNEY FEES:** In any legal action or proceeding between the parties to enforce any of the terms of this Service Contract, or in any way pertaining to the term of this Contract, the prevailing party shall be entitled to recover all expenses, including, but not limit to, a reasonable sum as and attorney's fees.

– **PRICES AND TAXES:** All merchandise listed in "QUALITY'S" current price schedule are F.O.B. QUALITY'S local station and are subject to change without notice. All prices are exclusive of any federal, state, local, or special taxes for the sale or use of the merchandise or services listed. The amount of taxes required to be paid by QUALITY shall be added to the quoted prices charged to CUSTOMER.

– **TOWING CHARGES:** QUALITY will make a reasonable attempt to get to and from each job site using its own equipment. Should QUALITY be unable to do so because of poor or inadequate road conditions, and should it become necessary to employ a tractor or other pulling equipment to get to or from the job site, the tractor or pulling equipment will be supplied by CUSTOMER or, if furnished by QUALITY, will be charged to and paid by CUSTOMER.

– **PREPARATION CHARGES:** If a job and/or merchandise is ordered and CUSTOMER cancels the order after preparation of a chemical solution or other material, CUSTOMER will pay QUALITY for the expenses incurred by QUALITY as a result of the cancellation.

– **DEADHAUL CHARGES:** Unless otherwise specified on the front of this Contract, a deadhaul charges as set forth in QUALITY'S current price book will be charged each way for each service unit which is ordered by CUSTOMER but not used.

– **SERVICE CONDITIONS AND LIABILITIES:** 1. QUALITY carries public liability and property damage insurance, but since there are so many uncertain and unknown conditions beyond QUALITY'S control, QUALITY shall not be liable for injuries to property or persons or for loss or damage arising from the performance of the job or delivery of the merchandise. Customer shall be responsible for and indemnify, defend, and hold harmless QUALITY, its officers, agents and employees, from and against any and all claims or suits for:

(A) Damage to property or for bodily injury, sickness, disease, or death, brought by any person, including CUSTOMER and/or the well owner; and:

(B) Oil spills, pollution, surface or sub-surface damage, injury to the well, reservoir loss, or damage arising from a well blowout arising out of or in connection with QUALITY'S performance of the job or furnishing of merchandise in accordance with this contract, unless such loss or damage is caused by the willful misconduct or gross negligence of QUALITY or its employees.

2. With respect to any of QUALITY'S tools, equipment, or instruments which are lost in the well or damaged when performing or attempting to perform the job or, in the case of marine operations, are lost or damaged at any time after delivery to the landing for CUSTOMER and before return to QUALITY at the landing, CUSTOMER shall either recover the lost item without cost to QUALITY or reimburse QUALITY the current replacement cost of the item unless the loss or damage results from the sole negligence of QUALITY or its employees.

3. QUALITY does not assume any liability or responsibility for damages or conditions resulting from chemical action in cements caused by contamination of water or other fluids.

WARRANTIES: 1. QUALITY warrants all merchandise manufactured or furnished by it to be free from defects in material and workmanship under normal use and service when installed, and used, and/or serviced in the manner provided and intended. QUALITY'S obligation under this warranty is expressly limited to repair replacement, or allowance for credit, at its option, for any merchandise which is determined by QUALITY to be defective. THIS IS THE SOLE WARRANTY OF QUALITY AND NO OTHER WARRANTY IS APPLICABLE, EITHER EXPRESS OR OTHERWISE IMPLIED, IN FACT OR IN LAW, INCLUDING ANY WARRANTY AS TO MERCHANTABILITY OR FITNESS FOR A PARTICULAR USE OR PURPOSE, CUSTOMER'S sole and only remedy with regard to any defective merchandise shall be the repair or replacement thereof or allowance for credit as herein provided, and QUALITY shall not be liable for any consequential, special, incidental, or punitive damages resulting from or caused by defective materials, products or supplies.

2. More specifically:

(A) Nothing in this contract shall be construed as a warranty by QUALITY of the success or the effectiveness of the result of any work done or merchandise used, sold, or furnished under this contract.

(B) Nothing in this contract shall be construed as a warranty of the accuracy or correctness of any facts, information, or data furnished by QUALITY or any interpretation of test, meter readings, chart information, analysis or research, or recommendations made by QUALITY, unless the inaccuracy or incorrectness is caused by the willful misconduct or gross negligence of QUALITY or its employees in the preparation or furnishing of such facts, information or data. (C) Work done by QUALITY shall be under the direct supervision and control of the CUSTOMER or his agent and QUALITY will accomplish the job as an independent contractor and not as an employee or agent of the CUSTOMER.

QUALITY OILWELL CEMENTING, INC.

Federal Tax I.D.# 20-2886107

Phone 785-483-2025
Cell 785-324-1041

Home Office P.O. Box 32 Russell, KS 67665

No. 1685

Date	3-24-17	Sec.	1	Twp.	22	Range	14	County	Stafford	State	Ks	On Location		Finish	3:00 PM
Lease								Seward SW		Well No.		1-1		Owner	
Contractor								WW #14		To Quality Oilwell Cementing, Inc. You are hereby requested to rent cementing equipment and furnish cementer and helper to assist owner or contractor to do work as listed.					
Type Job								Surface		Charge To					
Hole Size								12 1/4"		T.D.		300' 404'			
Csg.								8 5/8"		Depth		300' 404'			
Tbg. Size										Depth					
Tool										Depth					
Cement Left in Csg.								15'		Shoe Joint		15'			
Meas Line								Displace		24 1/2 BLS		1/2# Flo-seal			
EQUIPMENT								Common		270					
								Poz. Mix		180					
Pumptrk								16 No.		Cementer		Travis			
Bulktrk								19 No.		Driver		Doug			
Bulktrk								pu No.		Driver		Rick			
JOB SERVICES & REMARKS								Hulls							
								Salt							
Remarks:								Cement did		Circulate					
Rat Hole								Flowseal		225					
Mouse Hole								Kol-Seal							
Centralizers								Mud CLR 48							
Baskets								CFL-117 or CD110 CAF 38							
D/V or Port Collar								Sand							
								Handling		479					
								Mileage							
FLOAT EQUIPMENT								Guide Shoe							
								Centralizer							
								Baskets							
								AFU Inserts							
								Float Shoe							
								Latch Down							
								Pumptrk Charge		Surface					
								Mileage		19					
								Tax							
								Discount							
								Total Charge							
X Signature								Noel Roney							

GENERAL TERMS AND CONDITIONS

DEFINITIONS: In these terms and conditions, "Quality" shall mean Quality Oilwell Cementing, Inc., and "Customer" shall refer to the party identified by that term on the front of this contract. As applicable, "Job" relates to the services described on the front side of this contract, "merchandise" refers to the material described on the front of this contract and to any other materials, products, or supplies used, sold, or furnished under the requirements of this contract.

– **TERMS:** Unless satisfactory credit has been established, "CUSTOMER" must tender full cash payment to "QUALITY" before the job is undertaken or merchandise is delivered. If satisfactory credit has been established, the terms of payment for the job and/or merchandise, including bulk cement, are net cash, payable in 30 days from the completion of the job and/or delivery of the merchandise. For all past due invoices, "CUSTOMER" agrees to pay interest on amounts invoiced at a rate of 18 percent per annum until paid. Notwithstanding the foregoing in no event shall this Contract provide for interest exceeding the maximum rate of interest that "CUSTOMER" may agree to pay under applicable law. If any such interest should be provided for, it shall be and hereby is deemed to be a mistake, and this contract shall be automatically reformed to lower the rate of interest to the maximum legal contract rate, any amounts previously paid as excess interest shall be deducted from the amounts owing from the "CUSTOMER" or at the option of "QUALITY," refunded directly to "CUSTOMER." For purposes of this paragraph, QUALITY and CUSTOMER agree that KANSAS law shall apply. Any discounts granted with this contract are null and void if the charges are not paid when due.

– **ATTORNEY FEES:** In any legal action or proceeding between the parties to enforce any of the terms of this Service Contract, or in any way pertaining to the term of this Contract, the prevailing party shall be entitled to recover all expenses, including, but not limit to, a reasonable sum as and attorney's fees.

– **PRICES AND TAXES:** All merchandise listed in "QUALITY'S" current price schedule are F.O.B. QUALITY'S local station and are subject to change without notice. All prices are exclusive of any federal, state, local, or special taxes for the sale or use of the merchandise or services listed. The amount of taxes required to be paid by QUALITY shall be added to the quoted prices charged to CUSTOMER.

– **TOWING CHARGES:** QUALITY will make a reasonable attempt to get to and from each job site using its own equipment. Should QUALITY be unable to do so because of poor or inadequate road conditions, and should it become necessary to employ a tractor or other pulling equipment to get to or from the job site, the tractor or pulling equipment will be supplied by CUSTOMER or, if furnished by QUALITY, will be charged to and paid by CUSTOMER.

– **PREPARATION CHARGES:** If a job and/or merchandise is ordered and CUSTOMER cancels the order after preparation of a chemical solution or other material, CUSTOMER will pay QUALITY for the expenses incurred by QUALITY as a result of the cancellation.

– **DEADHAUL CHARGES:** Unless otherwise specified on the front of this Contract, a deadhaul charges as set forth in QUALITY'S current price book will be charged each way for each service unit which is ordered by CUSTOMER but not used.

– **SERVICE CONDITIONS AND LIABILITIES:** 1. QUALITY carries public liability and property damage insurance, but since there are so many uncertain and unknown conditions beyond QUALITY'S control, QUALITY shall not be liable for injuries to property or persons or for loss or damage arising from the performance of the job or delivery of the merchandise. Customer shall be responsible for and indemnify, defend, and hold harmless QUALITY, its officers, agents and employees, from and against any and all claims or suits for:

(A) Damage to property or for bodily injury, sickness, disease, or death, brought by any person, including CUSTOMER and/or the well owner; and:

(B) Oil spills, pollution, surface or sub-surface damage, injury to the well, reservoir loss, or damage arising from a well blowout arising out of or in connection with QUALITY'S performance of the job or furnishing of merchandise in accordance with this contract, unless such loss or damage is caused by the willful misconduct or gross negligence of QUALITY or its employees.

2. With respect to any of QUALITY'S tools, equipment, or instruments which are lost in the well or damaged when performing or attempting to perform the job or, in the case of marine operations, are lost or damaged at any time after delivery to the landing for CUSTOMER and before return to QUALITY at the landing, CUSTOMER shall either recover the lost item without cost to QUALITY or reimburse QUALITY the current replacement cost of the item unless the loss or damage results from the sole negligence of QUALITY or its employees.

3. QUALITY does not assume any liability or responsibility for damages or conditions resulting from chemical action in cements caused by contamination of water or other fluids.

WARRANTIES: 1. QUALITY warrants all merchandise manufactured or furnished by it to be free from defects in material and workmanship under normal use and service when installed, and used, and/or serviced in the manner provided and intended. QUALITY'S obligation under this warranty is expressly limited to repair replacement, or allowance for credit, at its option, for any merchandise which is determined by QUALITY to be defective. THIS IS THE SOLE WARRANTY OF QUALITY AND NO OTHER WARRANTY IS APPLICABLE, EITHER EXPRESS OR OTHERWISE IMPLIED, IN FACT OR IN LAW, INCLUDING ANY WARRANTY AS TO MERCHANTABILITY OR FITNESS FOR A PARTICULAR USE OR PURPOSE, CUSTOMER'S sole and only remedy with regard to any defective merchandise shall be the repair or replacement thereof or allowance for credit as herein provided, and QUALITY shall not be liable for any consequential, special, incidental, or punitive damages resulting from or caused by defective materials, products or supplies.

2. More specifically:

(A) Nothing in this contract shall be construed as a warranty by QUALITY of the success or the effectiveness of the result of any work done or merchandise used, sold, or furnished under this contract.

(B) Nothing in this contract shall be construed as a warranty of the accuracy or correctness of any facts, information, or data furnished by QUALITY or any interpretation of test, meter readings, chart information, analysis or research, or recommendations made by QUALITY, unless the inaccuracy or incorrectness is caused by the willful misconduct or gross negligence of QUALITY or its employees in the preparation or furnishing of such facts, information or data. (C) Work done by QUALITY shall be under the direct supervision and control of the CUSTOMER or his agent and QUALITY will accomplish the job as an independent contractor and not as an employee or agent of the CUSTOMER.