



DUAL COMP POROSITY LOG

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

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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							

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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

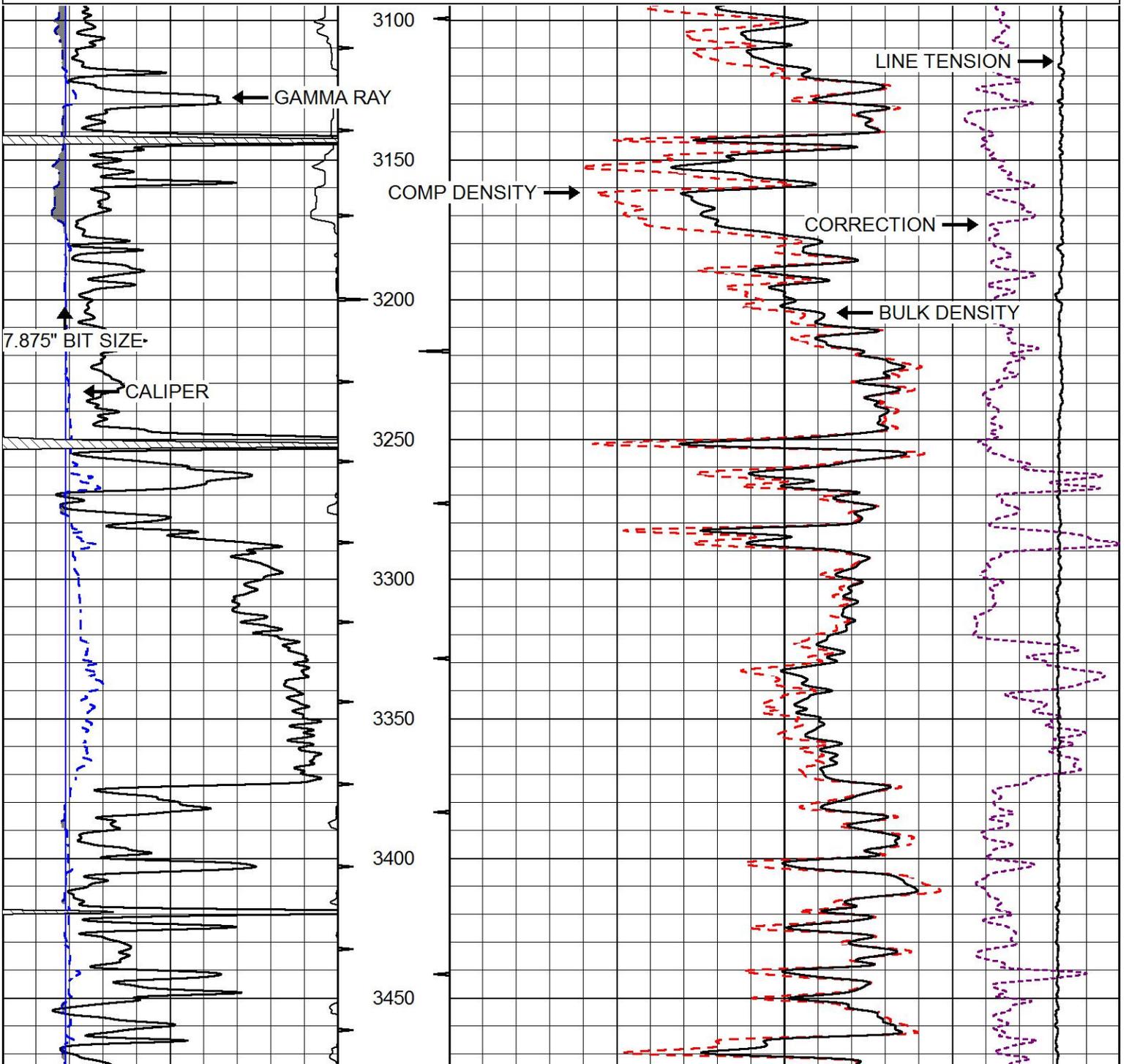
Your Pioneer Energy Services Crew	This Log Record Was Witnessed By
Engineer: D. SCHMIDT	Primary Witness: JUSTIN PRATER
Operator:	Secondary Witness:
Operator:	Secondary Witness:
Operator:	Secondary Witness:

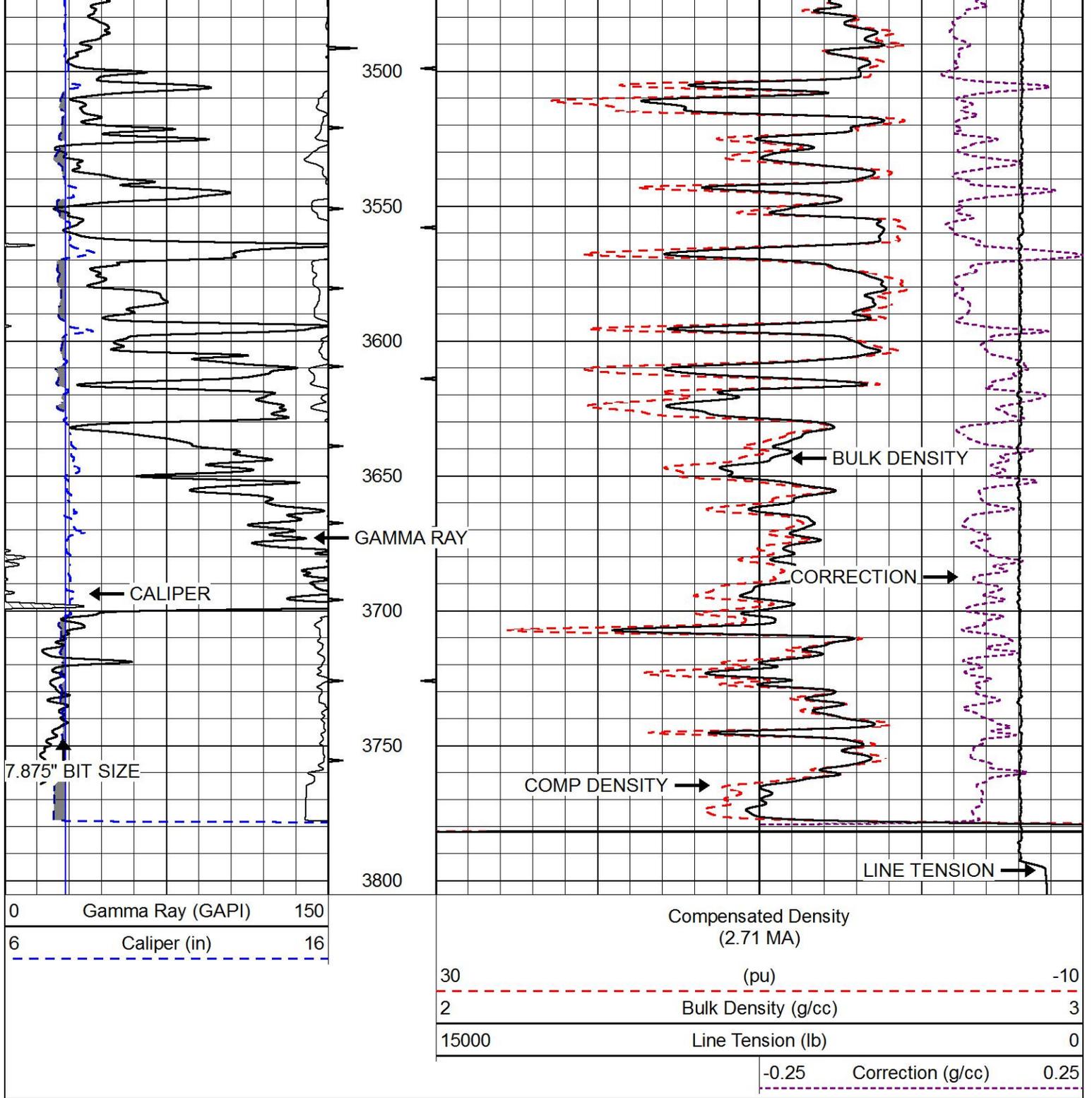
MAIN PASS

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

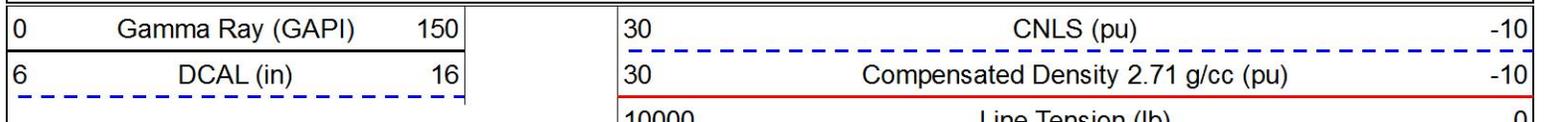
Compensated Density (2.71 MA)	
30	(pu) -10
2	Bulk Density (g/cc) 3
15000	Line Tension (lb) 0
-0.25	Correction (g/cc) 0.25

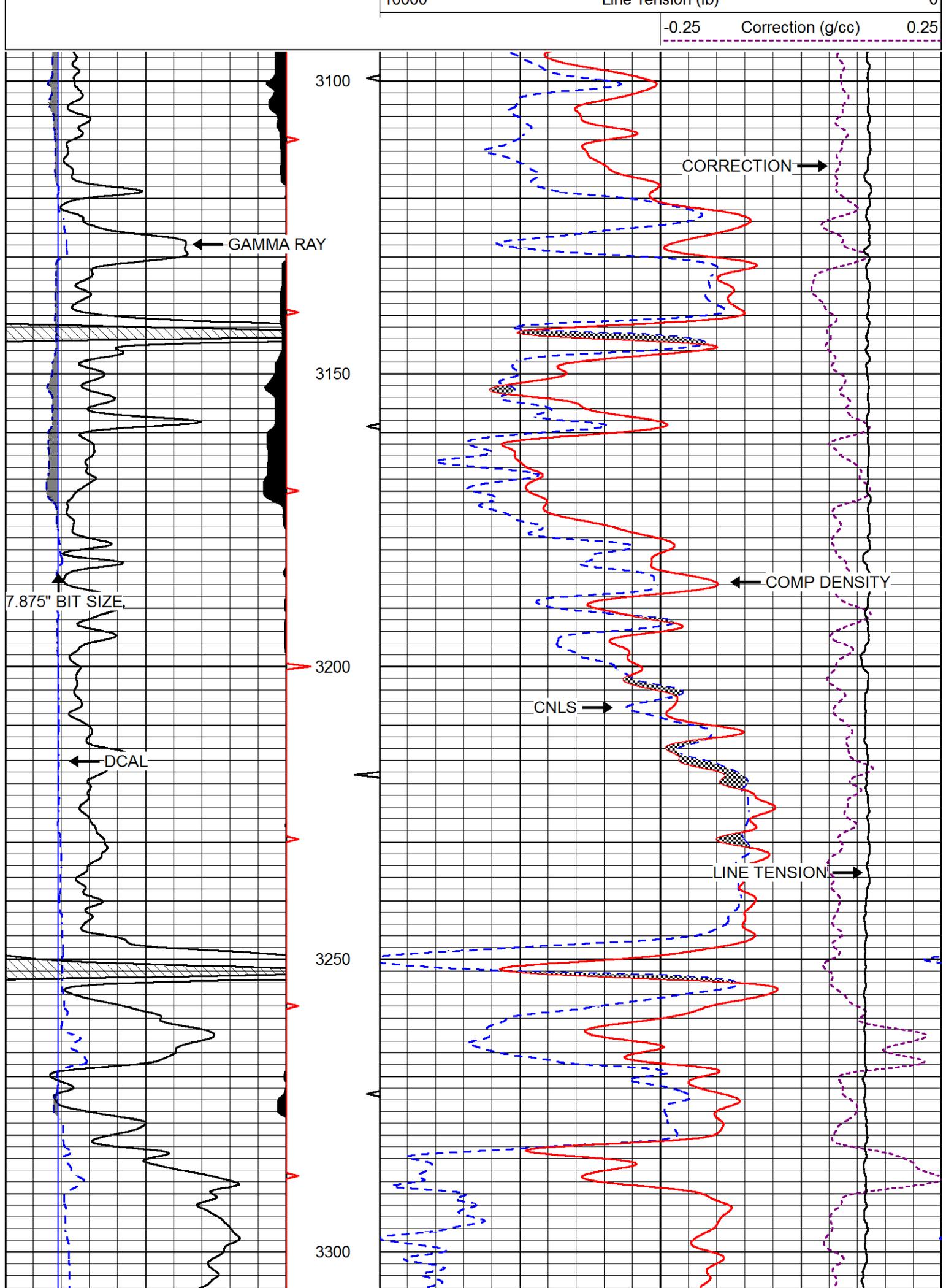


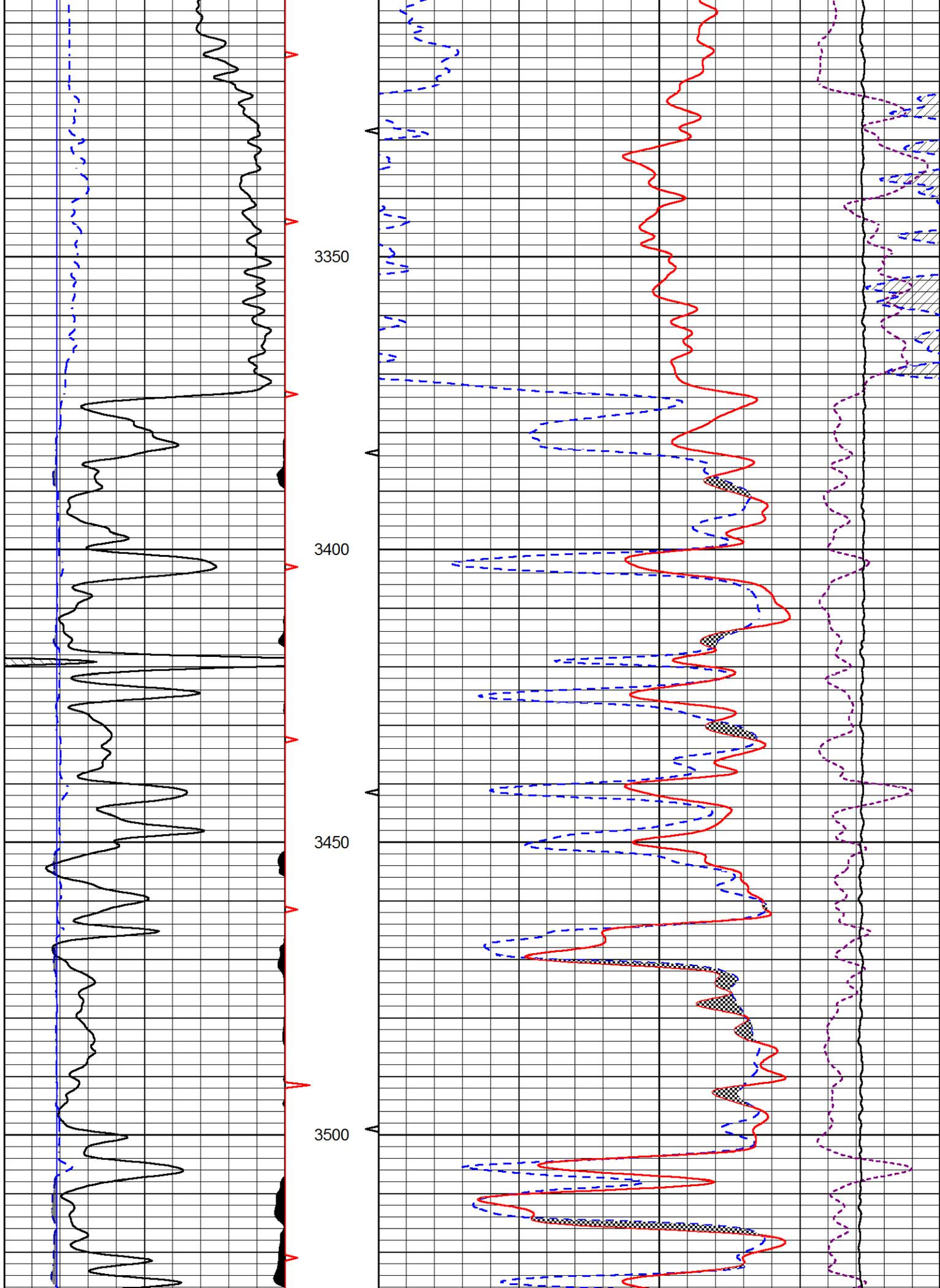


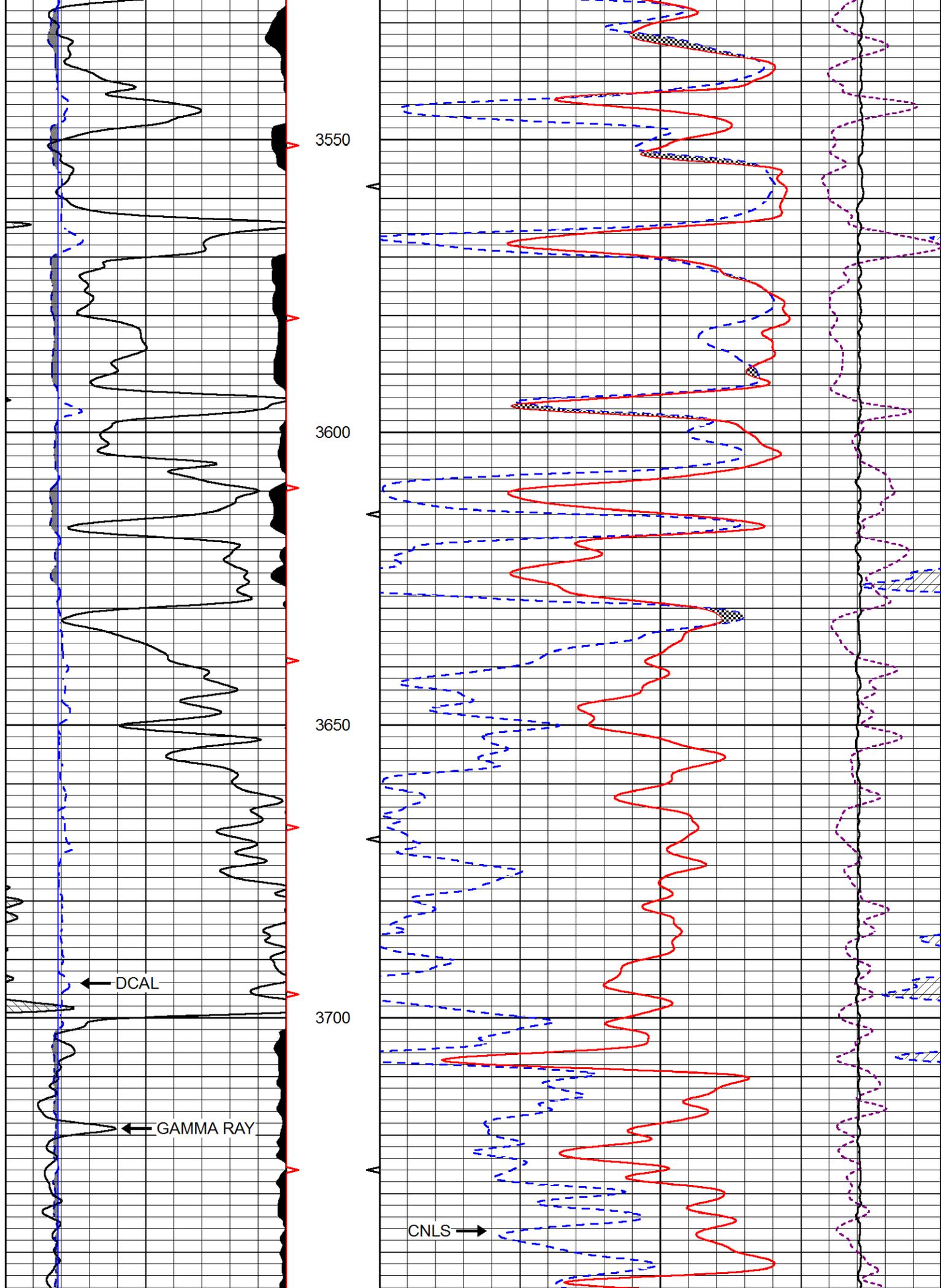
MAIN PASS

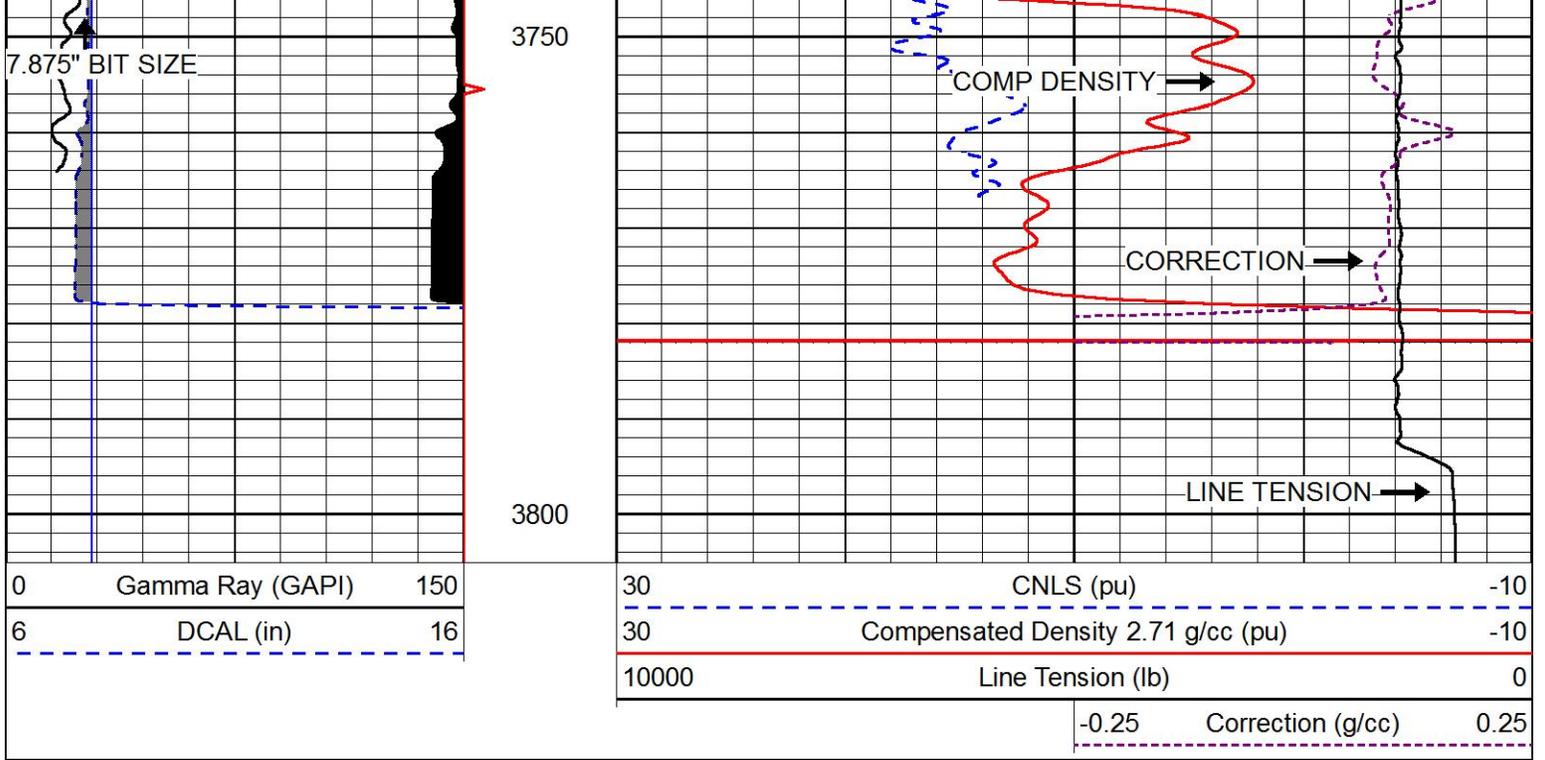
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 Dataset Pathname STKML/pass3.1
 Presentation Format cndlspec
 Dataset Creation Fri Mar 31 20:09:00 2017
 Charted by Depth in Feet scaled 1:240





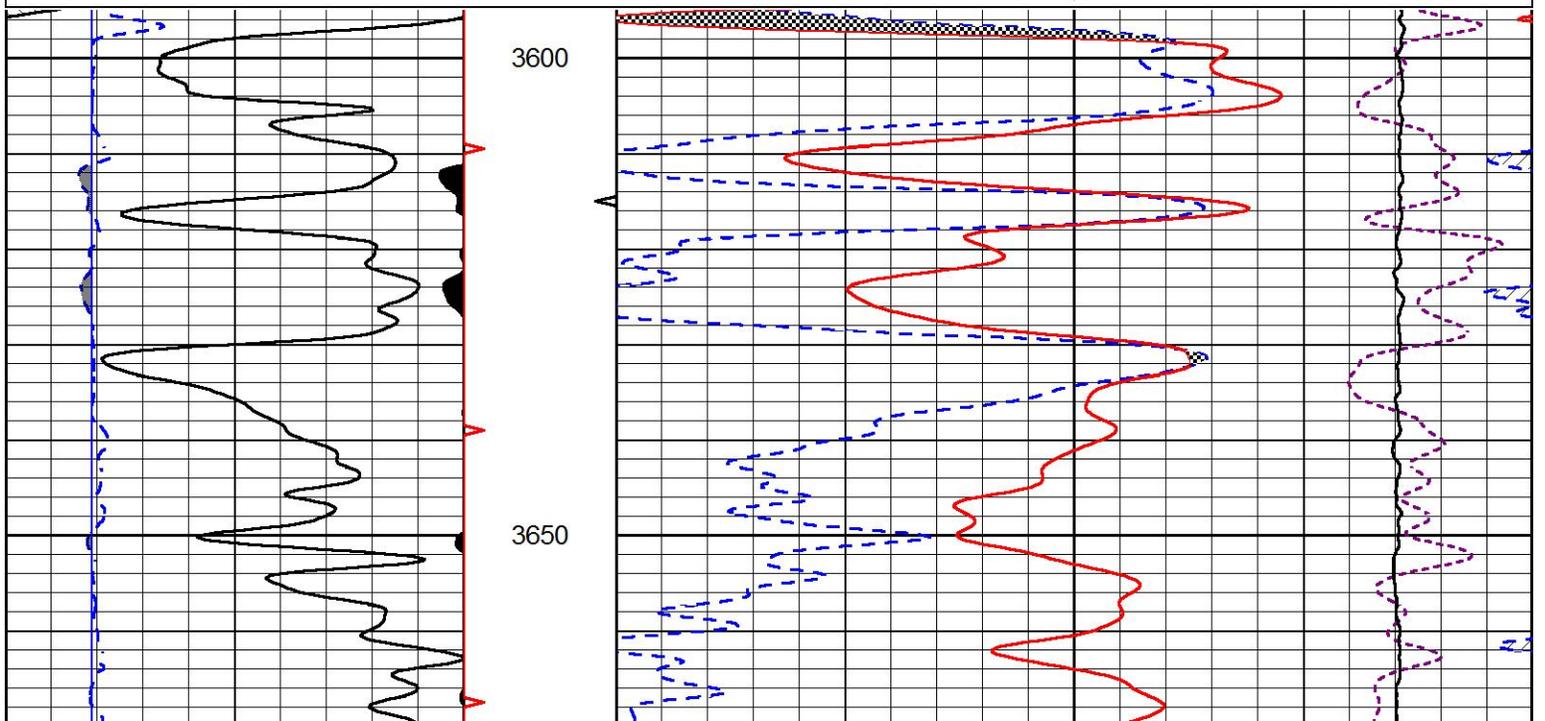
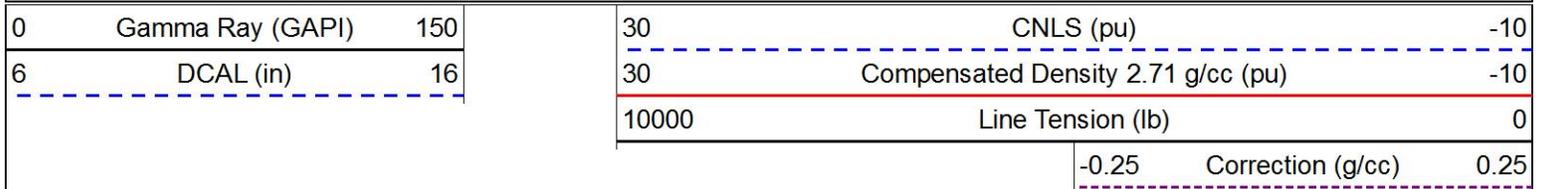


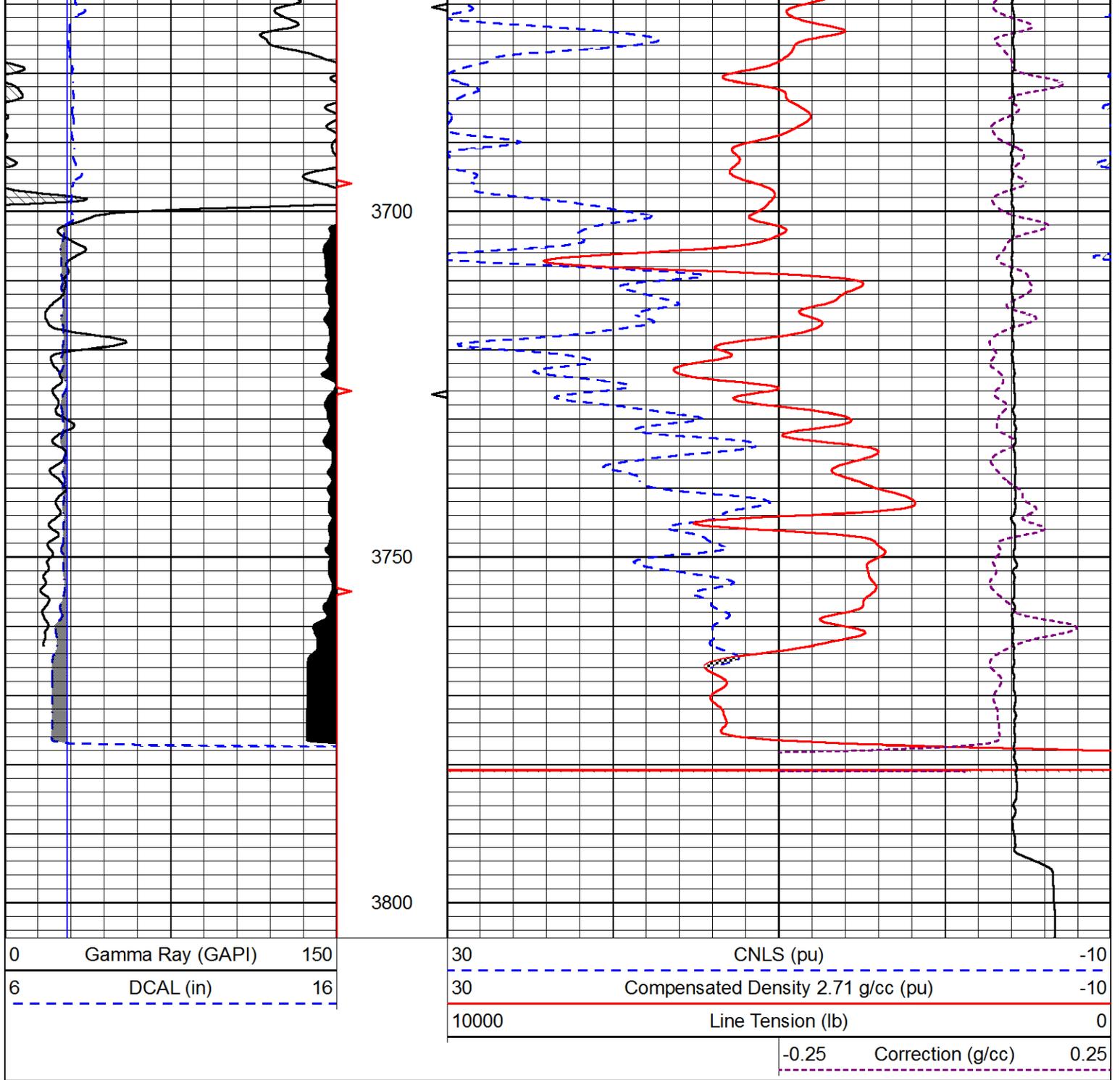





REPEAT SECTION

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