



NABORS

**COMPLETION
& PRODUCTION
SERVICES CO.**

COMPENSATED DENSITY / NEUTRON LOG

Company		SHELBY RESOURCES, LLC.	
Well		NELSON #1-27	
Field		WILDCAT	
County		BARTON	
State		KANSAS	
Company		SHELBY RESOURCES, LLC.	
Well		NELSON #1-27	
Field		WILDCAT	
County		BARTON	
State		KANSAS	
Location:		API # : 15-009-26103-0000	
Permanent Datum		GROUND LEVEL	
Log Measured From		KELLY BUSHING 11' A.G.L.	
Drilling Measured From		KELLY BUSHING	
SEC 27 TWP 18S RGE 14W		Elevation	
687' FNL & 1932' FEL		DIL/MEL	
		SONIC	
Date		7/8/15	
Run Number		ONE	
Depth Driller		3550	
Depth Logger		3549	
Bottom Logged Interval		3525	
Top Log Interval		2800	
Casing Driller		8 5/8"@857'	
Casing Logger		858	
Bit Size		7 7/8"	
Type Fluid in Hole		CHEMICAL MUD	
Density / Viscosity		9.0/64	
pH / Fluid Loss		10.5/7.2	
Source of Sample		FLOWLINE	
Rim @ Meas. Temp		.750@80F	
Rmf @ Meas. Temp		.563@80F	
Rmc @ Meas. Temp		.900@80F	
Source of Rmf / Rmc		MEASUREMENT	
Rim @ BHT		.536@112F	
Time Circulation Stopped		2 HOURS	
Time Logger on Bottom		4:30 A.M.	
Maximum Recorded Temperature		112F	
Equipment Number		4854	
Location		HAYS, KANSAS	
Recorded By		JEFF LUEBBERS	
Witnessed By		JEREMY SCHWARTZ	

<<< 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 "NABORS" HAYS, KANSAS (785) 628-6395
DIRECTIONS

HWY 4 & 281, W. OF HOISINGTON, KS., 4S. ON "BOYD RD." TO CURVE. JOG 1/4W., 1S., 1/2W., S. INTO



**COMPLETION
& PRODUCTION**

MAIN SECTION

Database File:

26626ddn.db

Dataset Pathname:

pass3.3

Presentation Format:

den_neu

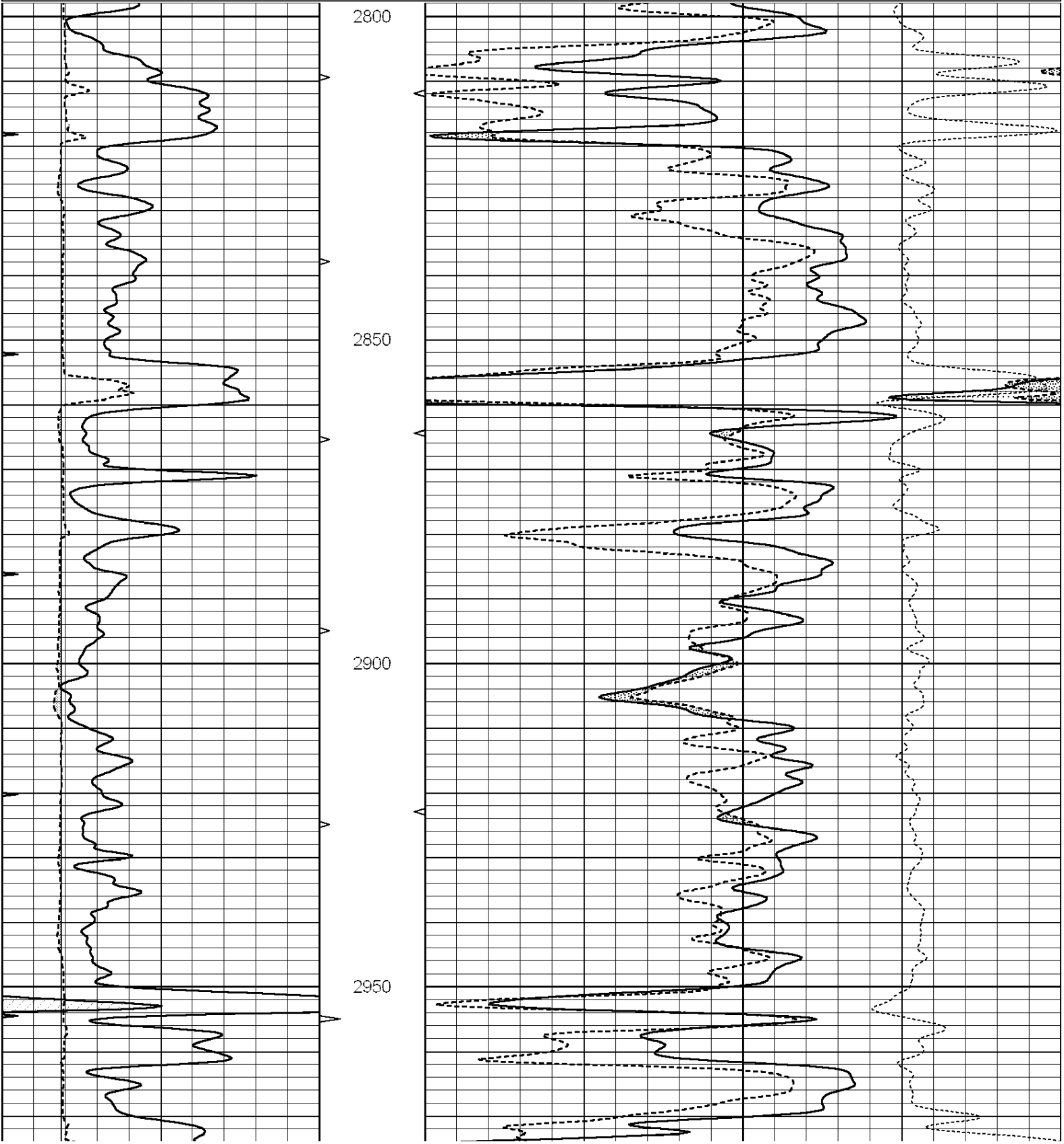
Dataset Creation:

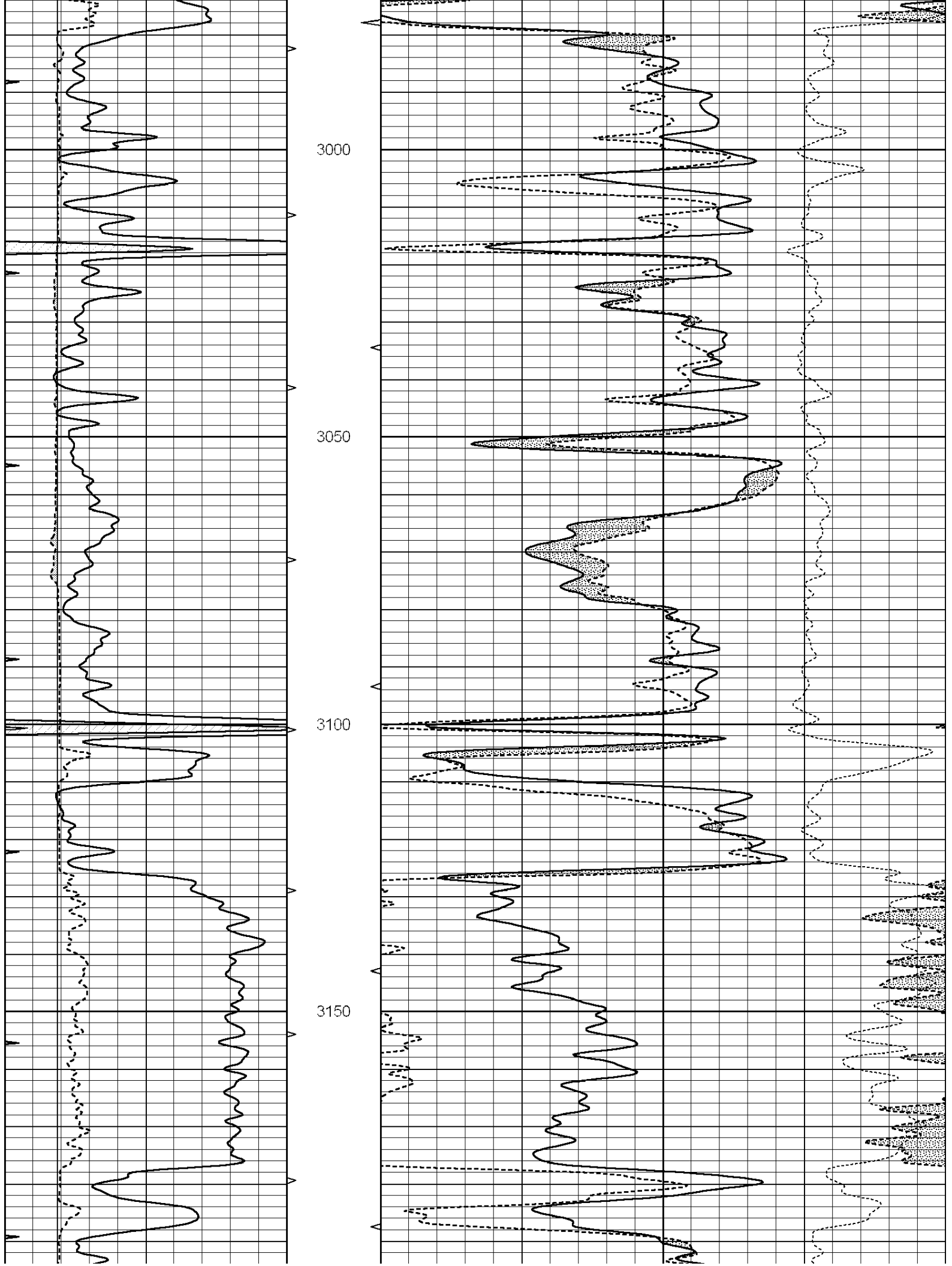
Wed Jul 08 05:40:20 2015 by Calc SOC 120430

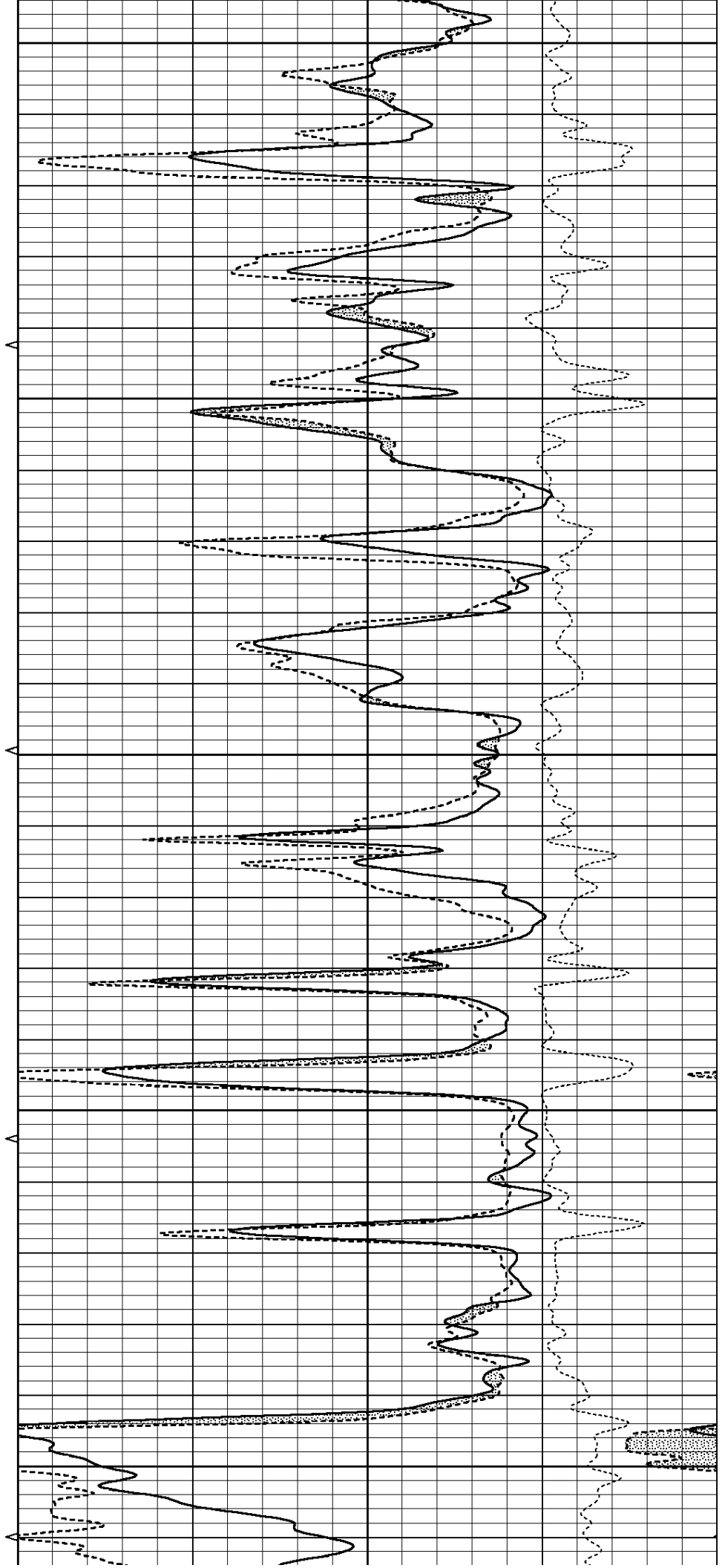
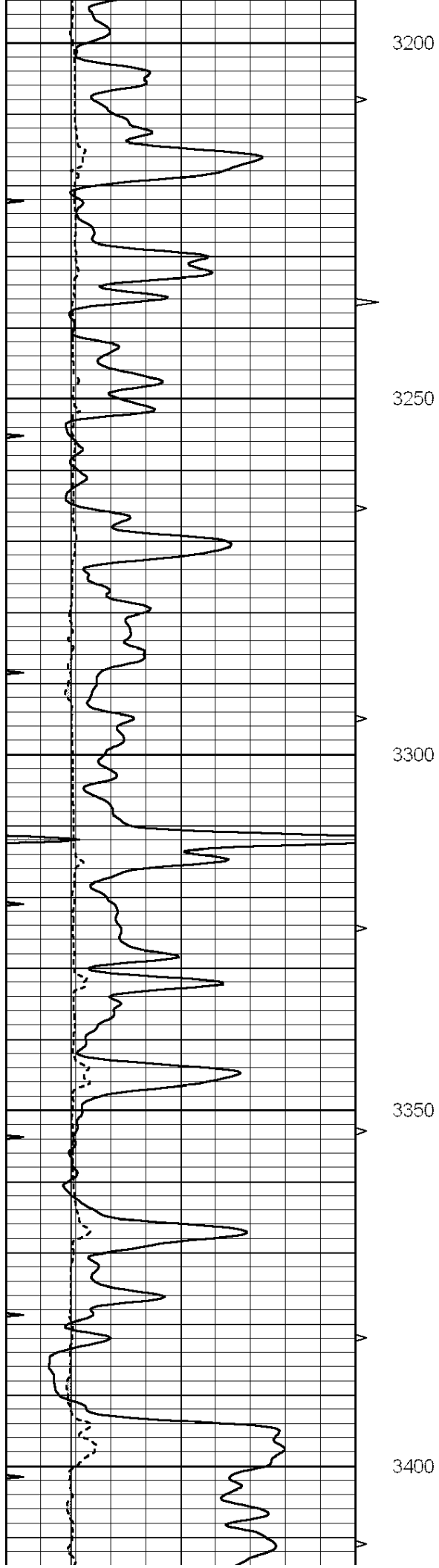
Charted by:

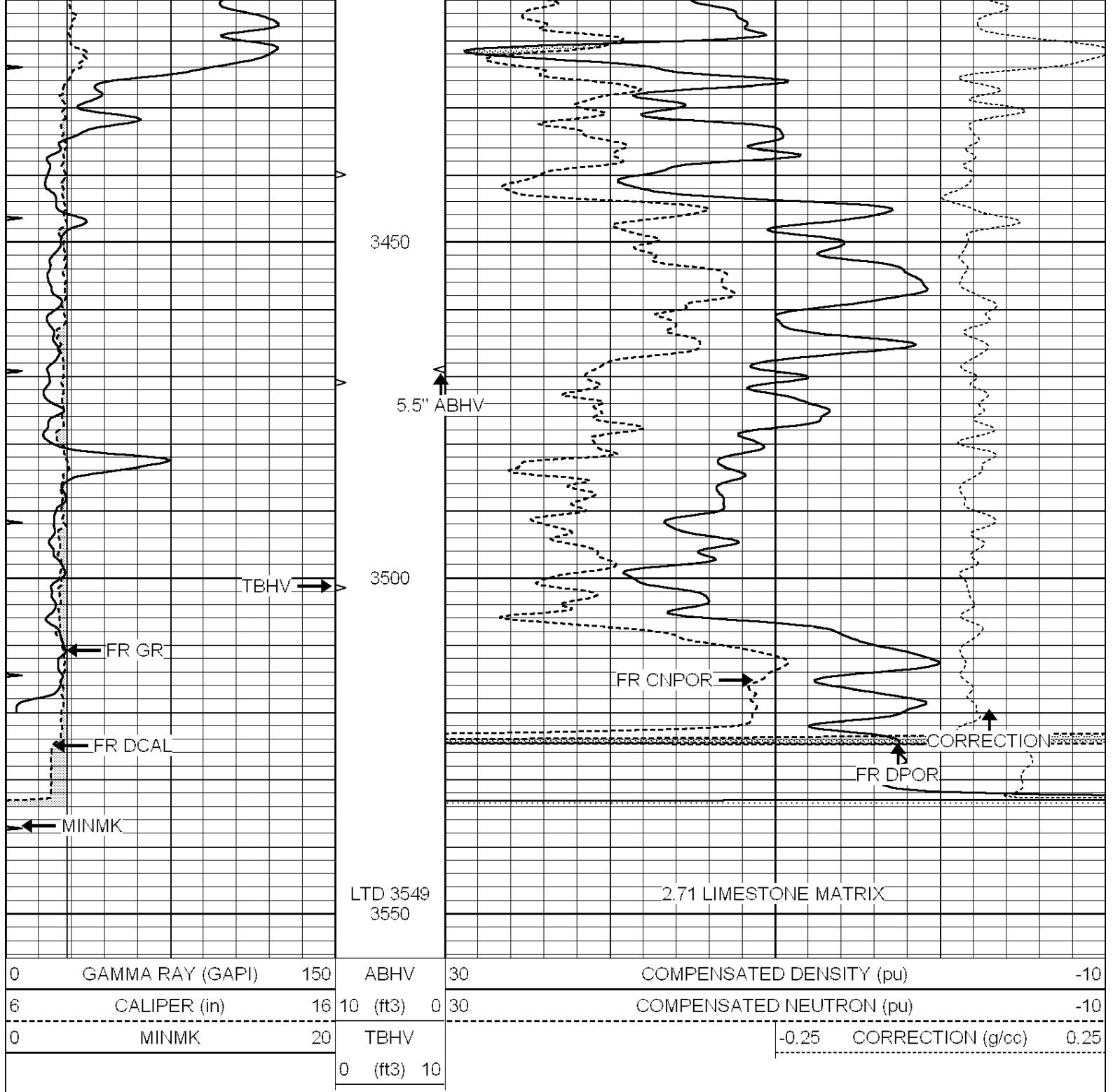
Depth in Feet scaled 1:240

0	GAMMA RAY (GAPI)	150	ABHV	30	COMPENSATED DENSITY (pu)	-10
6	CALIPER (in)	16	10 (ft3)	0 30	COMPENSATED NEUTRON (pu)	-10
0	MINMK	20	TBHV		-0.25 CORRECTION (g/cc)	0.25
			0 (ft3)	10		







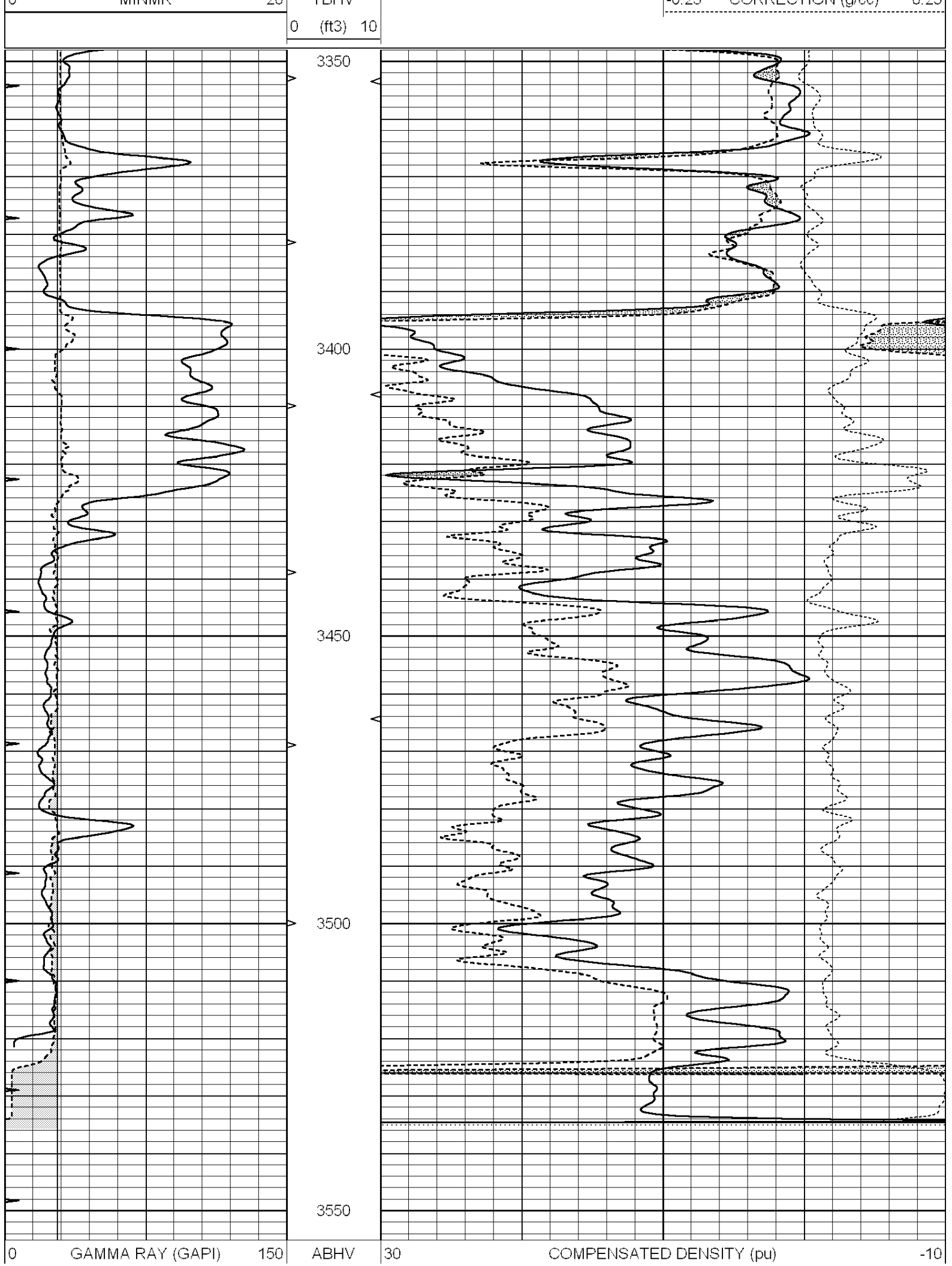


NABORS
COMPLETION
& PRODUCTION
SERVICES CO.

REPEAT SECTION

Database File: 26626ddn.db
Dataset Pathname: pass2.3
Presentation Format: den_neu
Dataset Creation: Wed Jul 08 04:41:43 2015 by Calc SOC 120430
Charted by: Depth in Feet scaled 1:240

0	GAMMA RAY (GAPI)	150	ABHV	30	COMPENSATED DENSITY (pu)	-10	
6	CALIPER (in)	16	10 (ft3)	0	30	COMPENSATED NEUTRON (pu)	-10
0	MINIRAK	20	TBLV		-0.25	CORRECTION (g/cc)	0.25
			0 (ft3)	10			



6	CALIPER (in)	16	10 (ft3)	0	30	COMPENSATED NEUTRON (pu)		-10
0	MINMK	20	TBHV			-0.25	CORRECTION (g/cc)	0.25
			0 (ft3)	10				

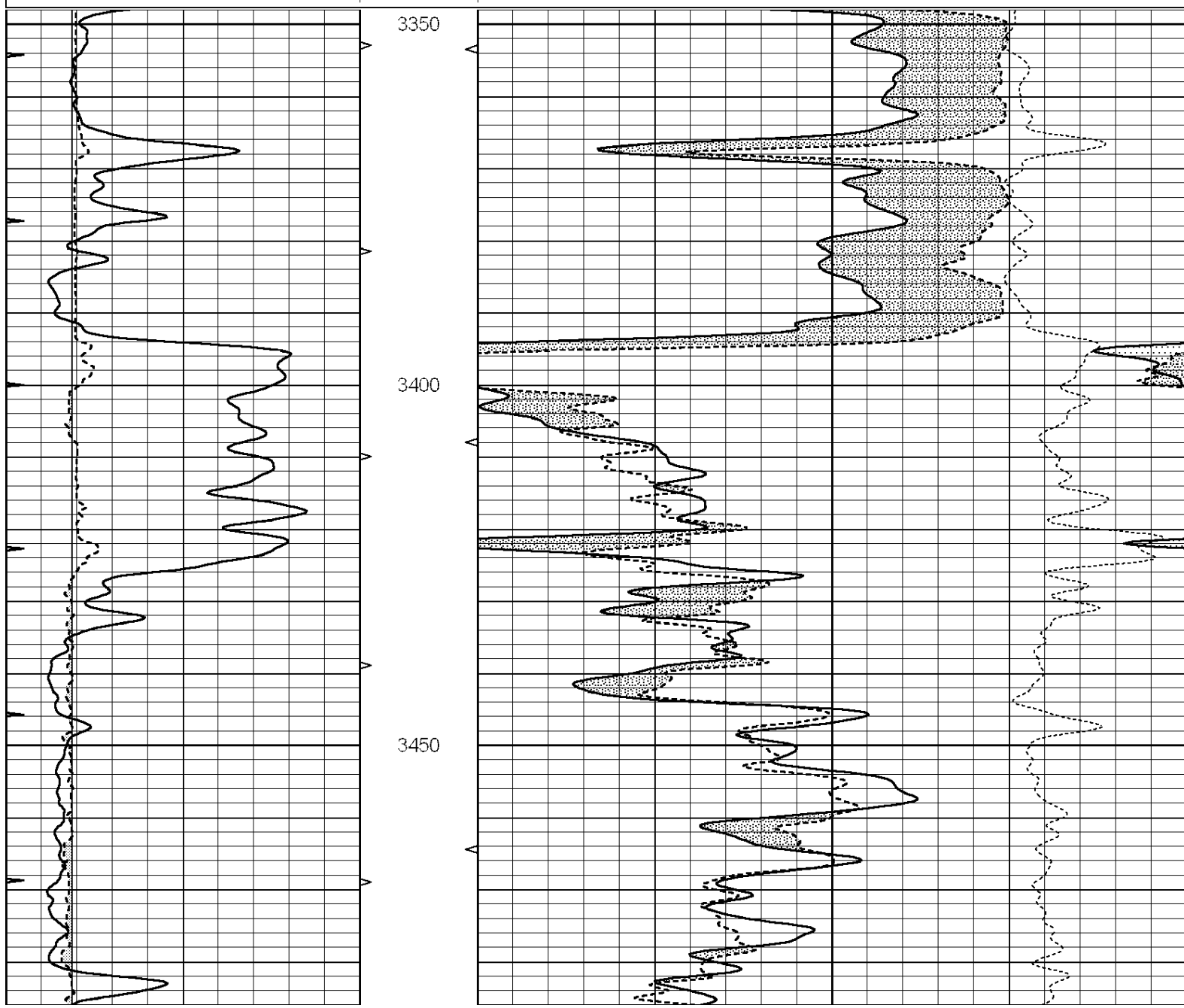


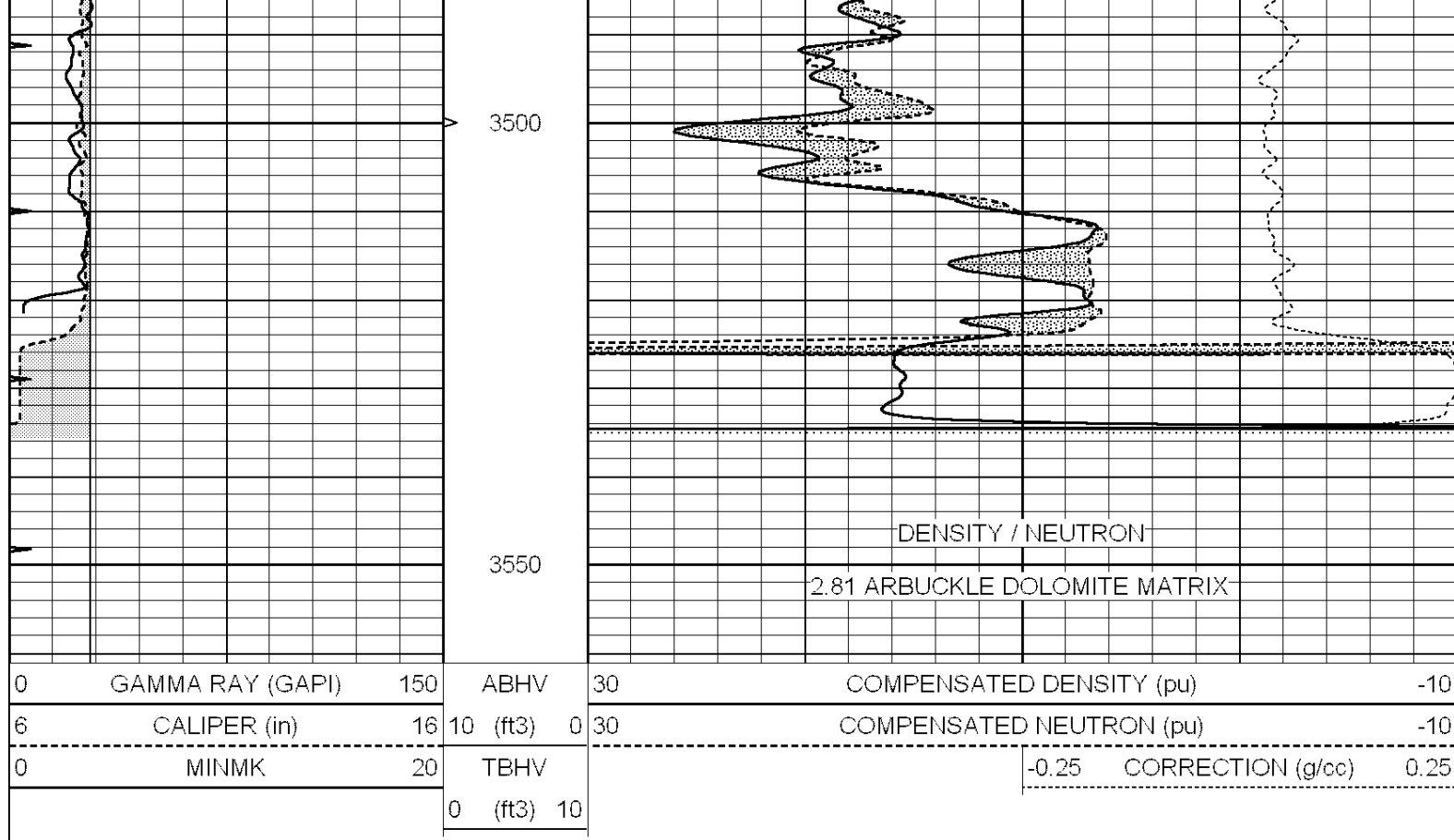
DOLOMITE MATRIX

Database File: 26626ddn.db
 Dataset Pathname: pass2.D
 Presentation Format: den_neu
 Dataset Creation: Wed Jul 08 04:45:06 2015
 Charted by: Depth in Feet scaled 1:240

0	GAMMA RAY (GAPI)	150	ABHV		30	COMPENSATED DENSITY (pu)			-10	
6	CALIPER (in)	16	10	(ft3)	0	30	COMPENSATED NEUTRON (pu)			-10

0	MINMK	20	TBHV				-0.25	CORRECTION (g/cc)	0.25	
			0	(ft3)	10					





Calibration Report

Database File: 26626ddn.db
 Dataset Pathname: pass3.3
 Dataset Creation: Wed Jul 08 05:40:20 2015 by Calc SOC 120430

Dual Induction Calibration Report

Serial-Model: PROBE9-DILG
 Surface Cal Performed: Mon May 04 16:08:03 2015
 Downhole Cal Performed: Mon Jul 28 12:02:56 2008
 After Survey Verification Performed: Mon Jul 28 12:02:56 2008

Surface Calibration

Loop:	Readings			References			Results	
	Air	Loop		Air	Loop		m	b
Deep	-0.014	0.629	V	0.000	400.000	mmho/m	670.000	-12.000
Medium	0.039	0.728	V	0.000	464.000	mmho/m	670.000	-20.000
Internal:	Zero	Cal		Zero	Cal		m	b
Deep	0.011	0.610	V	0.000	400.000	mmho/m	667.135	-7.256
Medium	0.005	0.712	V	0.000	464.000	mmho/m	655.677	-3.102

Downhole Calibration

	Readings			References			Results	
	Zero	Cal		Zero	Cal		m'	b'
Deep	0.000	0.000	mmho/m	14.508	388.384	mmho/m	1.000	0.000
Medium	0.000	0.000	mmho/m	166.367	504.400	mmho/m	1.000	0.000
LL3		7.500	V		1400.000	Ohm-m		
		0.000	V		20.000	Ohm-m		
		-7.200	V		4000.000	mmho-m		

After Survey Verification

Readings			Targets			Results		
	Zero	Cal		Zero	Cal		m'	b'
Deep	0.000	0.000	mmho/m	0.000	0.000	mmho/m	0.000	0.000
Medium	0.000	0.000	mmho/m	0.000	0.000	mmho/m	0.000	0.000
LL3		1.000	Ohm-m		1.000	Ohm-m		
		0.000	Ohm-m		0.000	Ohm-m		
		1.000	mmho-m		1.000	mmho-m		

Litho Density Calibration Report								
Serial: 003N Model: PRB								

Master Calibration			Performed Tue Sep 08 14:14:44 2009					
	Background	Magnesium	Aluminum	Sandstone				
Window 1	2042.6	12312.8	4225.8	13758.4			cps	
Window 2	1855.8	10134.7	3624.2	11113.1			cps	
Window 3	1639.4	6760.2	2716.3	7260.3			cps	
Window 4	466.4	469.2	466.1	476.5			cps	
Long Space	0.0	8278.9	1768.4	9257.4			cps	
Short Space	2.2	2377.3	1544.1	2574.2			cps	
Rho		1.7100	2.5900	1.3800			g/cc	
Pe		0.0000	2.5700	1.5500				
Rib Angle	: 44.4	Rib Slope	: 0.979	Density/Spine Ratio			: 0.549	
Spine Angle	: 74.4	Spine Slope	: 3.577	Spine Intercept			: -18.8	

Before Survey Verification			Performed Wed Dec 31 18:00:00 1969					
Window 1	0.0	0.0	0.0	0.0			cps	
Window 2	0.0	0.0	0.0	0.0			cps	
Window 3	0.0	0.0	0.0	0.0			cps	
Window 4	0.0	0.0	0.0	0.0			cps	
Long Space	0.0	0.0	0.0	0.0			cps	
Short Space	0.0	0.0	0.0	0.0			cps	
Measured Rho		0.0000	0.0000	0.0000			g/cc	
Measured Correction		0.0000	0.0000	0.0000			g/cc	
Measured Pe			0.0000	0.0000				

After Survey Verification			Performed Wed Dec 31 18:00:00 1969					
Window 1	0.0	0.0	0.0	0.0			cps	
Window 2	0.0	0.0	0.0	0.0			cps	
Window 3	0.0	0.0	0.0	0.0			cps	
Window 4	0.0	0.0	0.0	0.0			cps	
Long Space	0.0	0.0	0.0	0.0			cps	
Short Space	0.0	0.0	0.0	0.0			cps	
Measured Rho		0.0000	0.0000	0.0000			g/cc	
Measured Correction		0.0000	0.0000	0.0000			g/cc	
Measured Pe			0.0000	0.0000				

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

Compensated Neutron Calibration Report								
--	--	--	--	--	--	--	--	--

Serial Number:			070808					
Tool Model:			Probe					

PRE-SURVEY VERIFICATION								
Detector		Readings		Measured		Target		

Short Space	cps	pu	pu
Long Space	cps		
POST-SURVEY VERIFICATION			
Detector	Readings	Measured	Target
Short Space	cps		
Long Space	cps	pu	pu
Gamma Ray Calibration Report			
Serial Number:	070558		
Tool Model:	OPEN_GR		
Performed:	Sat Mar 21 17:40:37 2015		
Calibrator Value:	1.0	GAPI	
Background Reading:	0.0	cps	
Calibrator Reading:	1.0	cps	
Sensitivity:	0.2600	GAPI/cps	