

COMPENSATED DENSITY/NEUTRON LOG

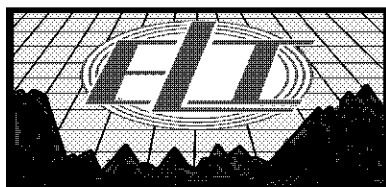
Company		DOUBLE D'S, LLC.	
Well		CECIL #2	
Field			
County		ELLIS	State
KANSAS			
Location:		API # : 15-051-26946-0000	
2135' FNL & 2265' FWL		Other Services DIL/MEL	
SEC 30 TWP 15S RGE 18W		Elevation	
Permanent Datum		GROUND LEVEL Elevation 1965	
Log Measured From		KELLY BUSHING 8' A.G.L	
Drilling Measured From		KELLY BUSHING	
K.B. 1973		D.F. 1971	
G.L. 1965			
Date	4/20/19		
Run Number	ONE		
Depth Driller	3765		
Depth Logger	3765		
Bottom Logged Interval	3741		
Top Log Interval	2850		
Casing Driller	8 5/8" @ 1140		
Casing Logger	1140		
Bit Size	7 7/8		
Type Fluid in Hole	CHEMICAL MUD	CHLORIDES 5000 PPM	
Density / Viscosity	9.3/54		
pH / Fluid Loss	10.0/7.8		
Source of Sample	FLOWLINE		
Rm @ Meas. Temp	.95 @ 78F		
Rmf @ Meas. Temp	.71 @ 78F		
Rmc @ Meas. Temp	1.14 @ 78F		
Source of Rmf / Rmc	MEASUREMENT		
Rm @ BHT	.65 @ 114F		
Time Circulation Stopped	2 HOURS		
Time Logger on Bottom	////		
Maximum Recorded Temperature	114F		
Equipment Number	3802		
Location	HAYS, KANSAS		
Recorded By	JASON CAPELLUCCI		
Witnessed By	MARC DOWNING		

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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

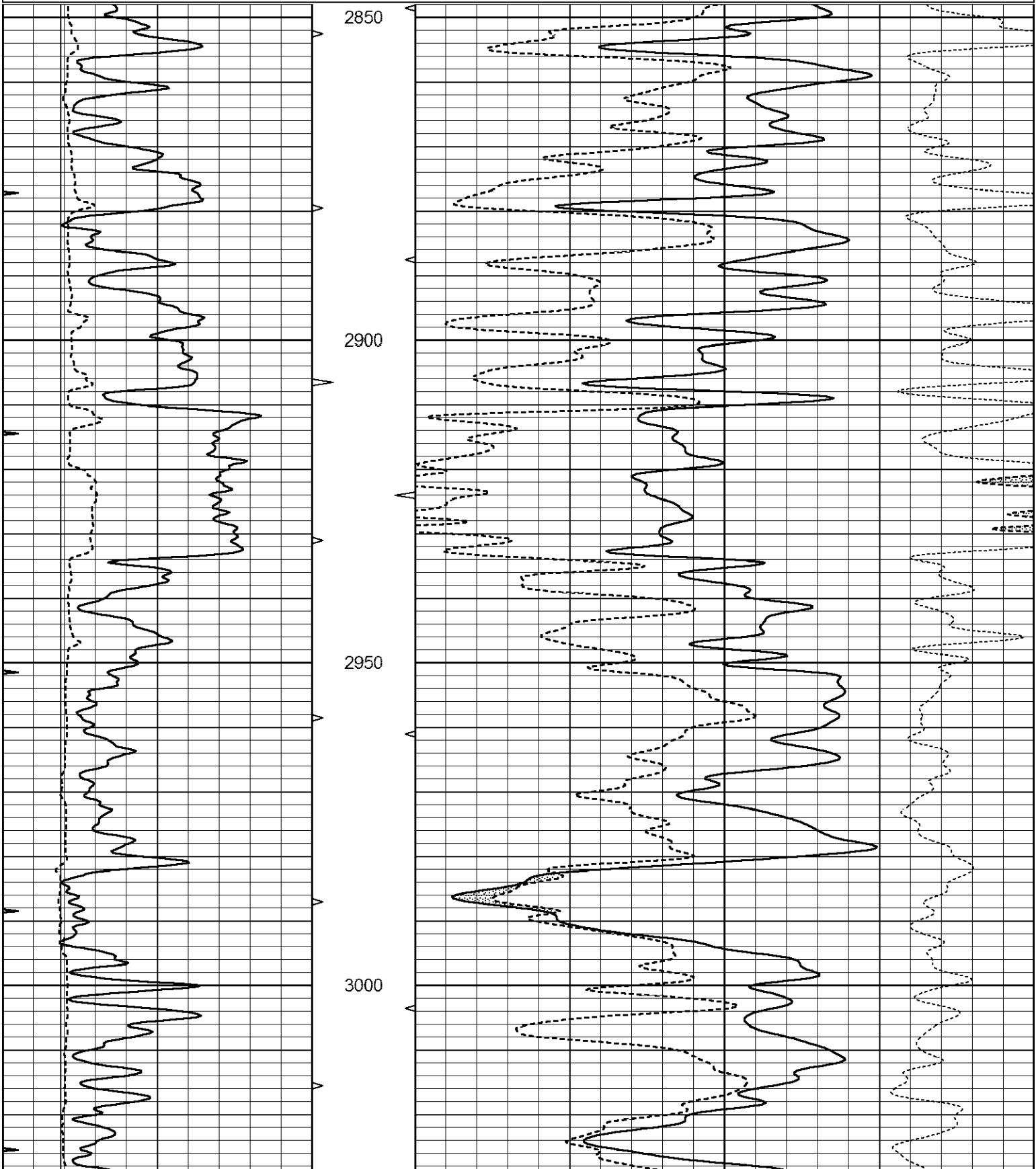
THANK YOU FOR USING ELI WIRELINE SERVICES, HAYS, KS. (785) 628-6395
DIRECTIONS
HAYS, KS. - SOUTH TO SMOKY HILL RIVER RD. - 2 WEST TO J CORP SAND PIT
1/2 SOUTH INTO

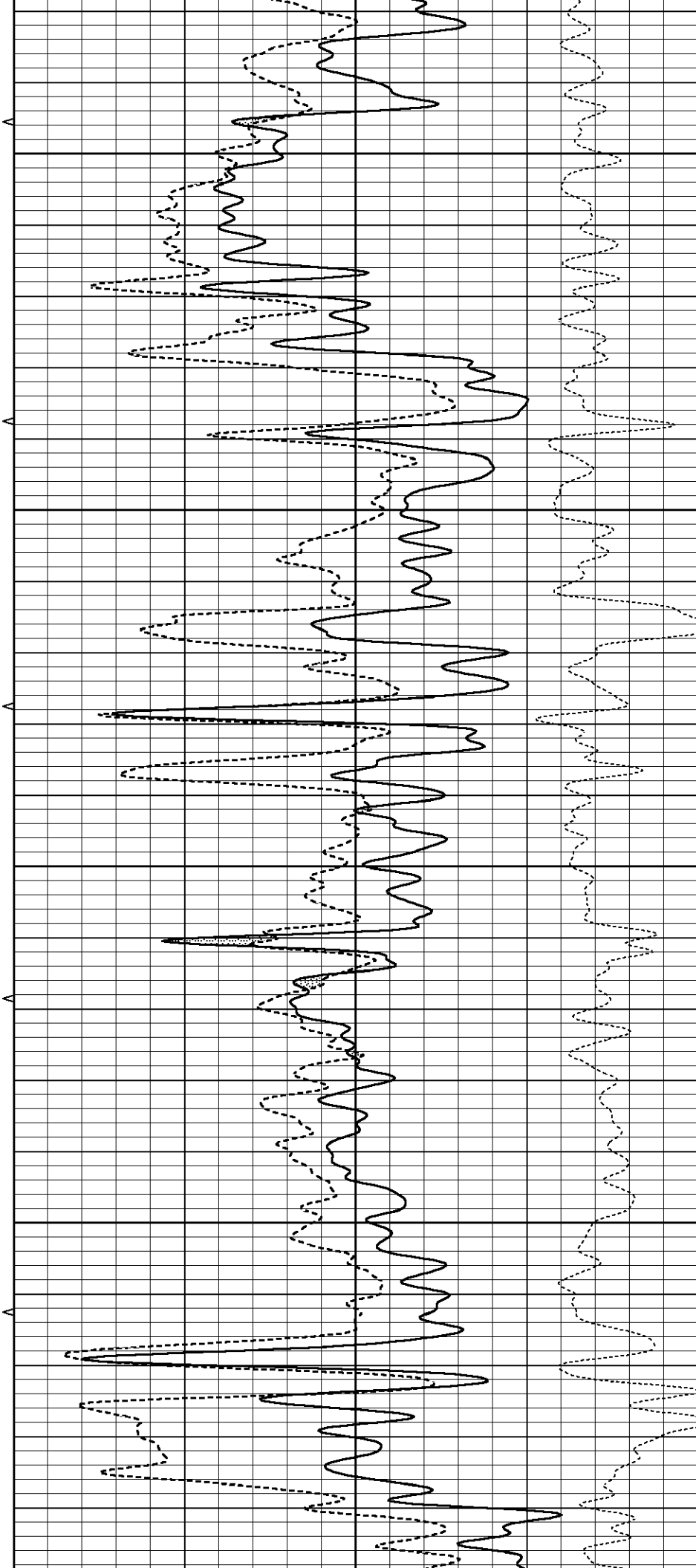
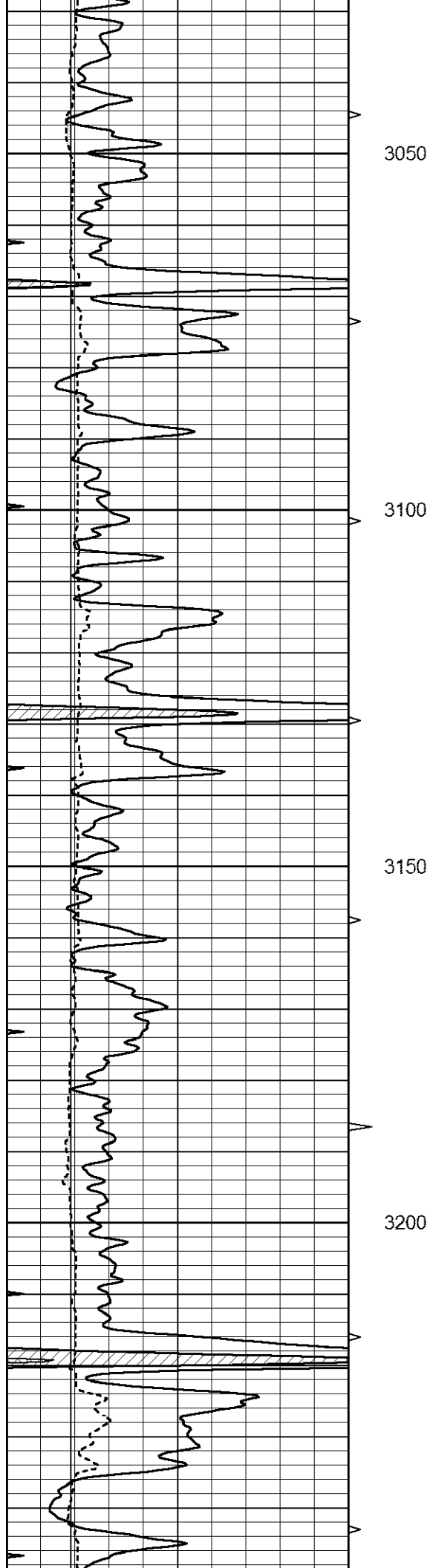


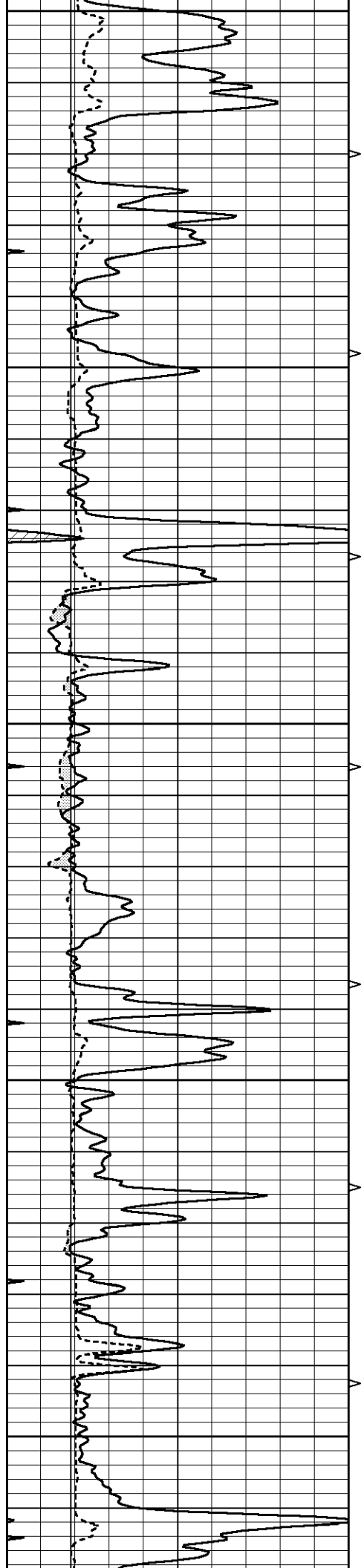
MAIN SECTION

Database File	3633ddn8.db
Dataset Pathname	pass3.1
Presentation Format	_den_neu
Dataset Creation	Sat Apr 20 18:59:04 2019
Charted by	Depth in Feet scaled 1:240

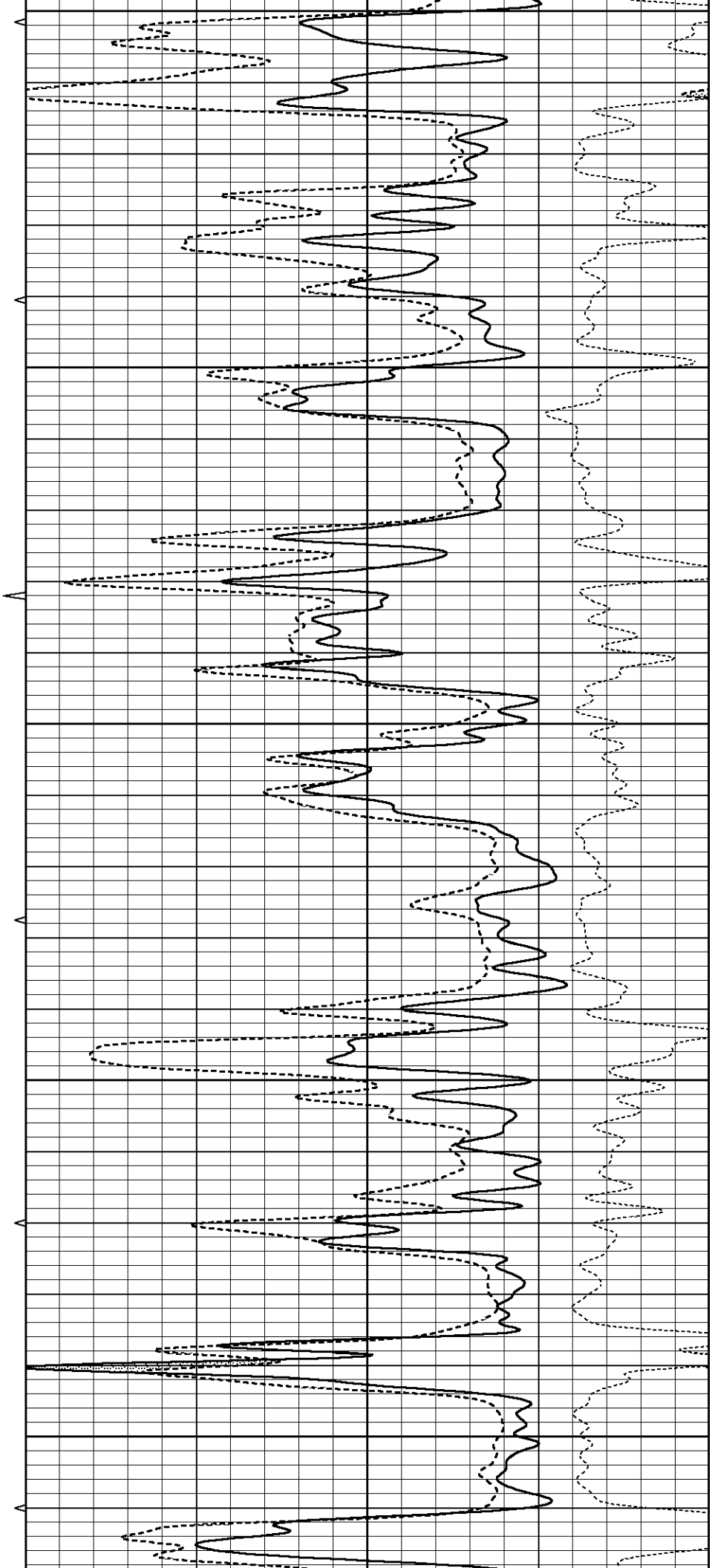
0	GAMMA RAY (GAPI)	150	AVTX	30	COMPENSATED DENSITY (pu)	-10
6	CALIPER (in)	16	10 (ft3)	0 30	COMPENSATED NEUTRON (pu)	-10
0	MINMK	20	BVTX		-0.25 CORRECTION (g/cc)	0.25
			0 (ft3)	10		

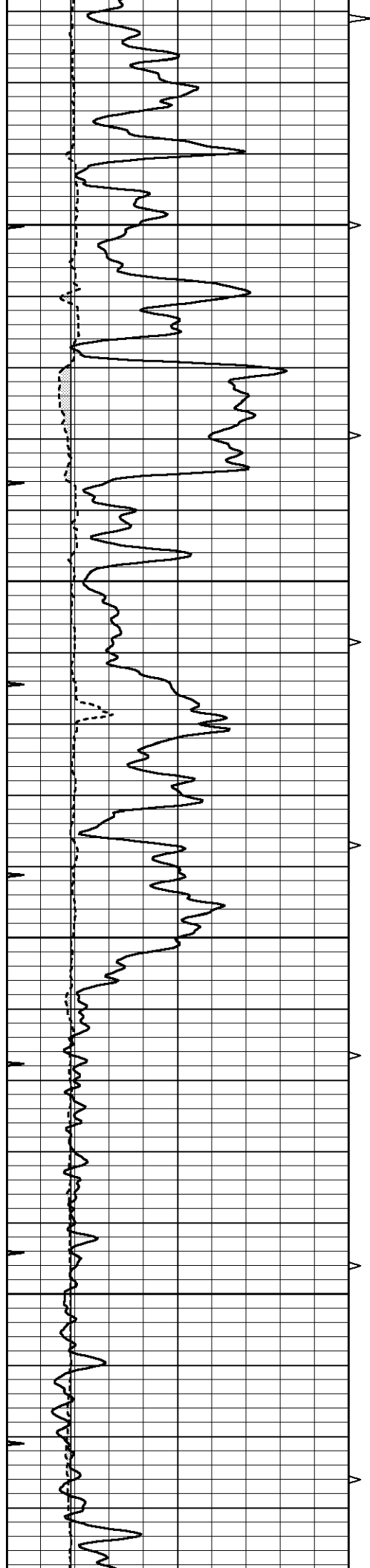






3250
3300
3350
3400
3450



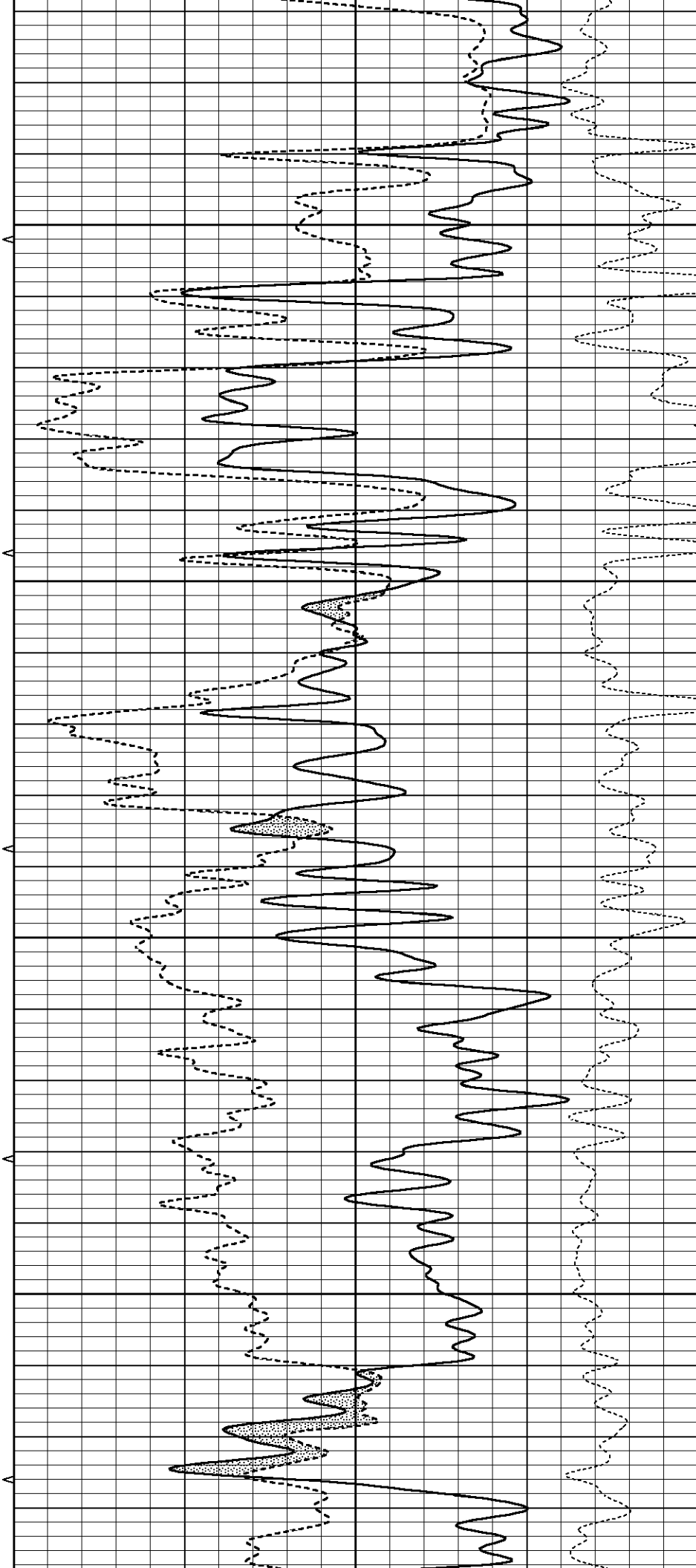


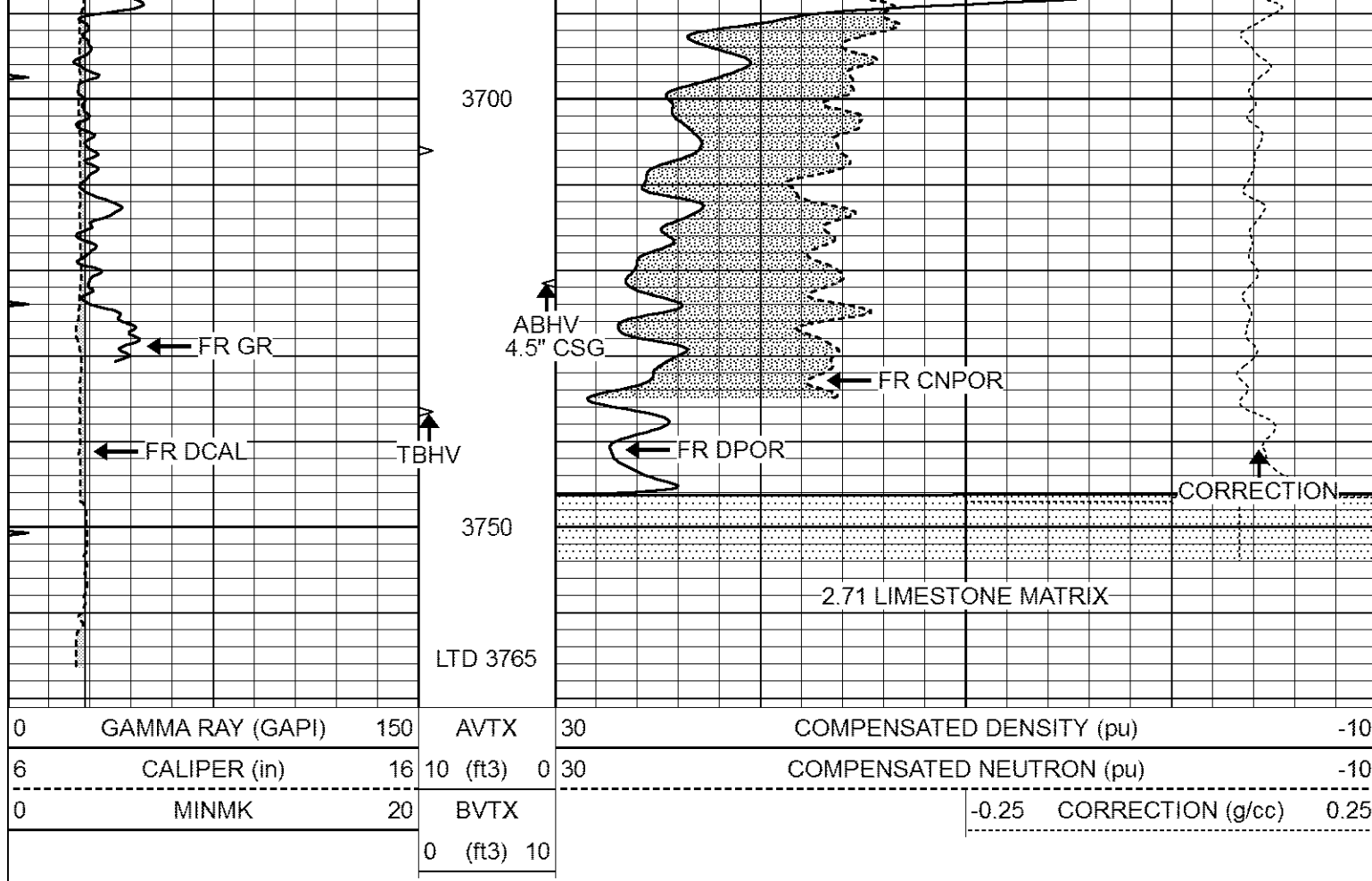
3500

3550

3600

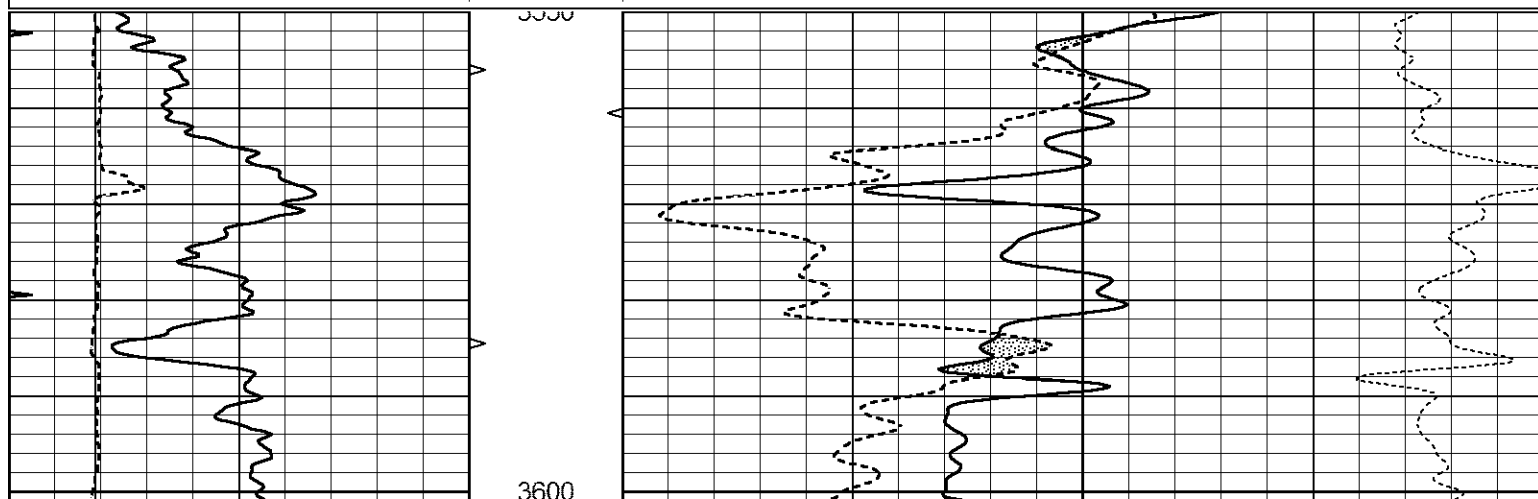
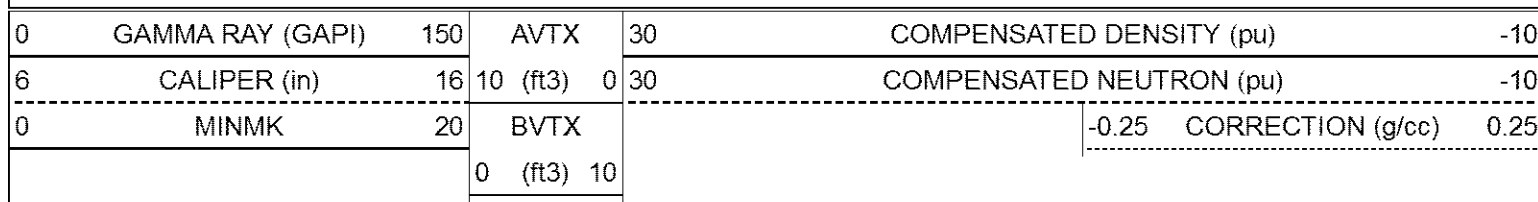
3650

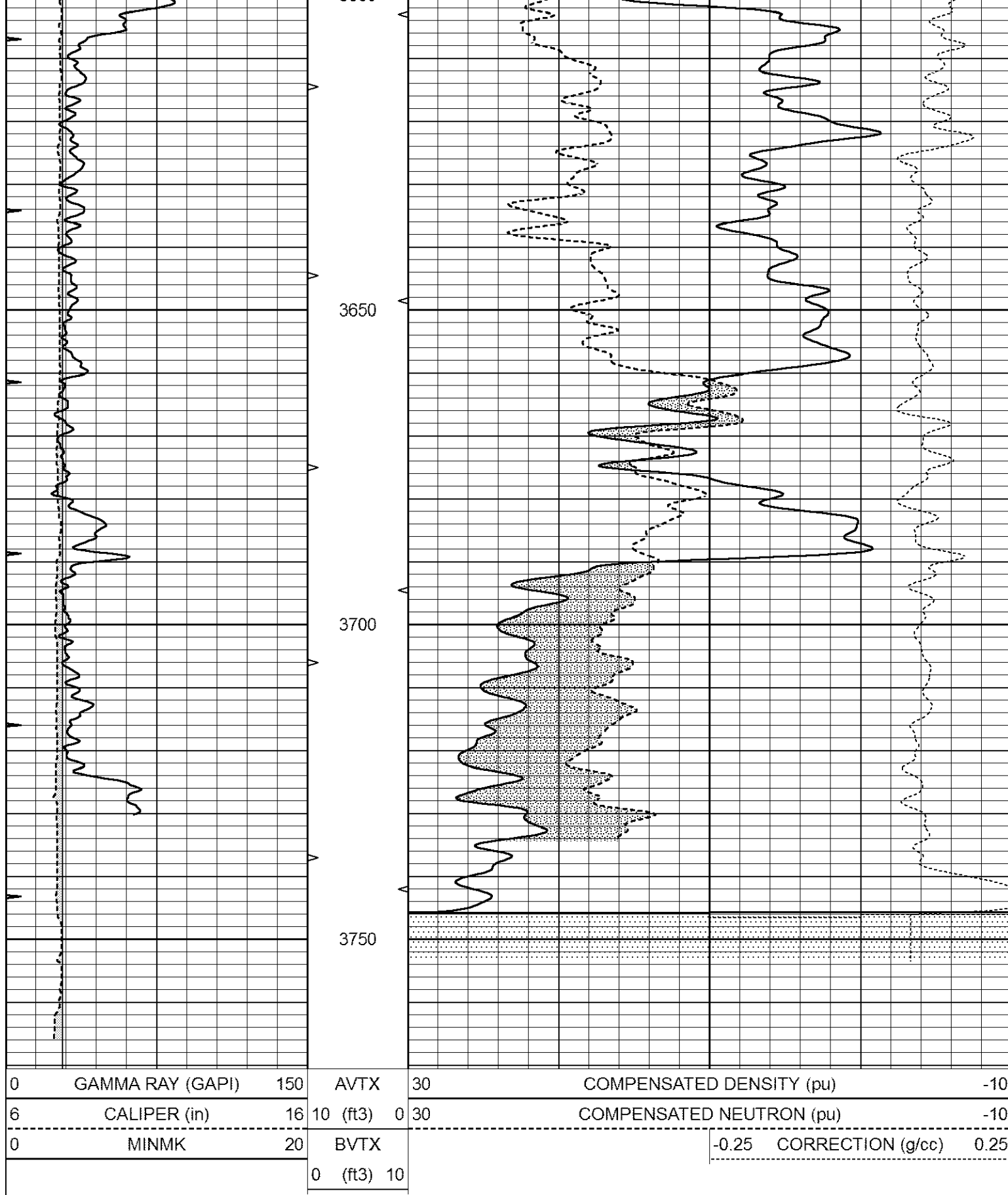




REPEAT SECTION

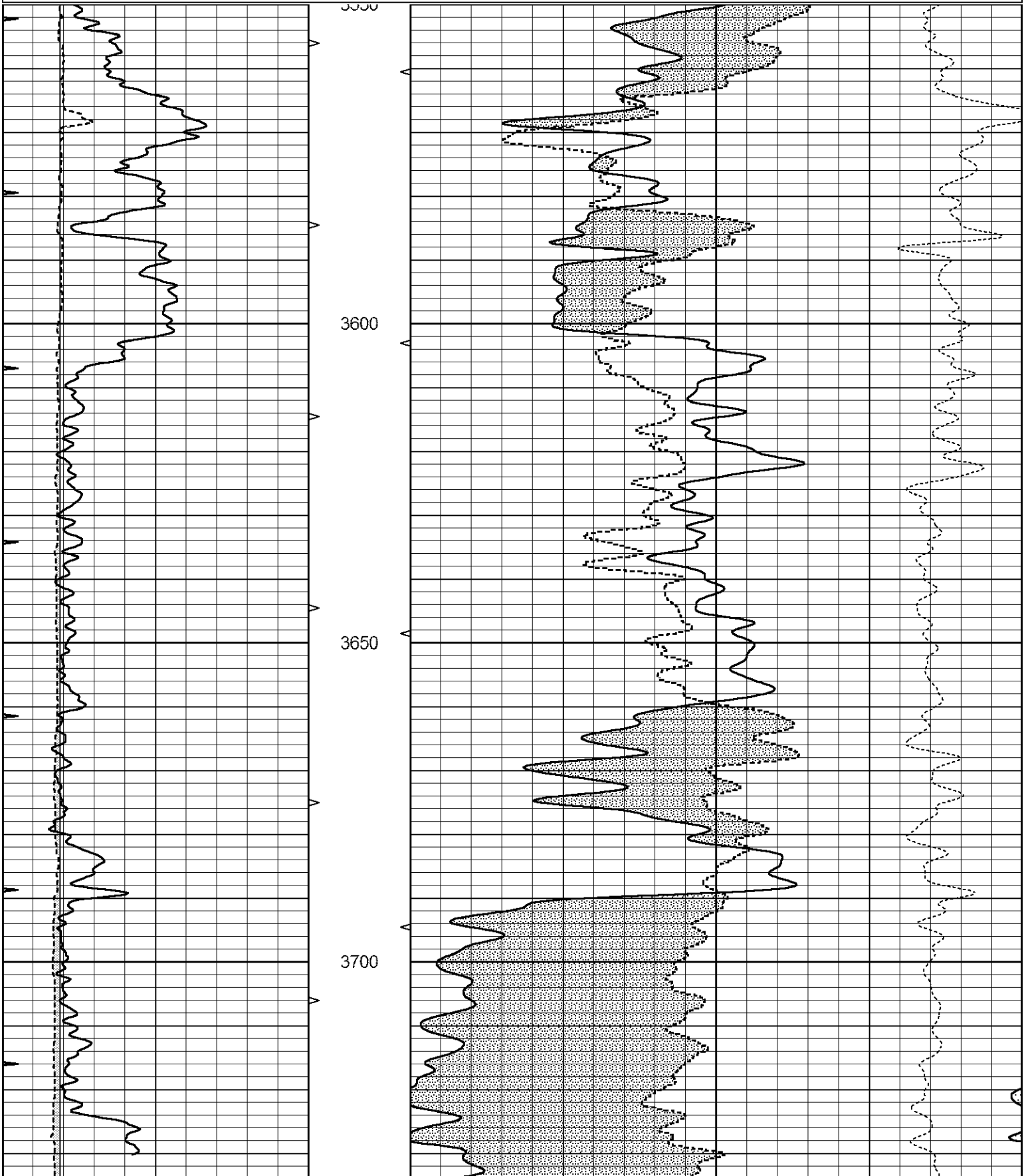
Database File 3633ddn8.db
 Dataset Pathname pass2.1
 Presentation Format _den_neu
 Dataset Creation Sat Apr 20 18:44:27 2019
 Charted by Depth in Feet scaled 1:240

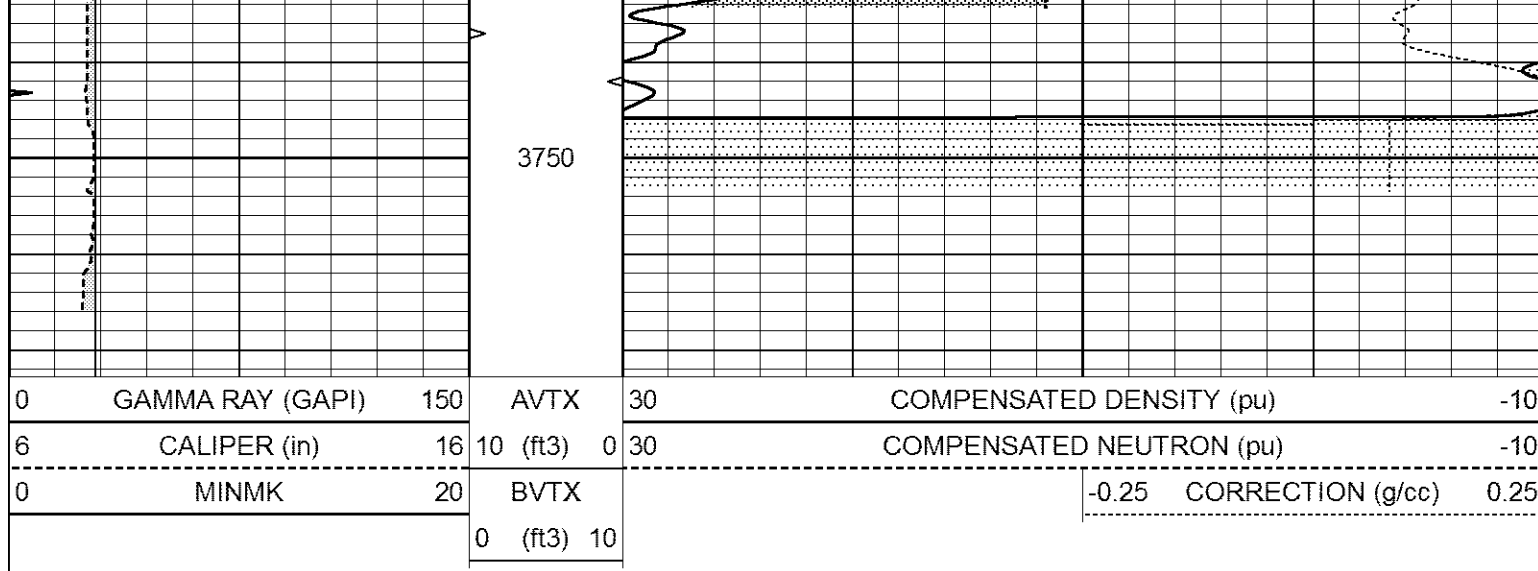




DOLOMITE MATRIX

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





Calibration Report

Database File 3633ddn8.db
Dataset Pathname pass2.1
Dataset Creation Sat Apr 20 18:44:27 2019

Dual Induction Calibration Report

Serial-Model: FW1410-55-Probe
Surface Cal Performed: Tue Feb 19 11:44:18 2019
Downhole Cal Performed: Tue Feb 19 11:44:24 2019
After Survey Verification Performed: Tue Feb 19 11:44:27 2019

Surface Calibration

Loop:	Readings			References			Results	
	Air	Loop		Air	Loop		m	b
Deep	0.011	0.656	V	1.000	400.000	mmho/m	618.595	-5.524
Medium	-0.000	0.731	V	1.000	464.000	mmho/m	632.856	1.197
Internal:	Zero	Cal		Zero	Cal		m	b
Deep	0.007	0.649	V	0.000	400.000	mmho/m	623.784	-4.595
Medium	0.004	0.743	V	0.000	464.000	mmho/m	627.284	-2.251

Downhole Calibration

	Readings			References			Results	
	Zero	Cal		Zero	Cal		m'	b'
Deep	-0.824	395.917	mmho/m	-0.976	397.550	mmho/m	1.004	-0.149
Medium	3.565	471.327	mmho/m	3.468	471.590	mmho/m	1.001	-0.099
LL3		7.503	V		1500.000	Ohm-m		
		0.001	V		20.000	Ohm-m		
		-7.481	V		3745.000	mmho-m		

After Survey Verification

	Readings			Targets			Results	
	Zero	Cal		Zero	Cal		m'	b'
Deep	0.000	0.000	mmho/m	-0.824	395.917	mmho/m	1.000	0.000
Medium	0.000	0.000	mmho/m	3.565	471.327	mmho/m	1.000	0.000
LL3		0.000	Ohm-m		1500.000	Ohm-m		
		0.000	Ohm-m		20.000	Ohm-m		
		0.000	mmho-m		3745.000	mmho-m		

Litho Density Calibration Report

Master Calibration Performed: Fri Jan 18 10:53:52 2019

	Background	Aluminum	Magnesium		
Window 1	563.20	5403.39	24190.50	cps	
Window 2	44.78	1243.51	6049.93	cps	
Window 4	247.62	1222.40	5239.60	cps	
Window 5	568.17	8975.27	17094.80	cps	
Window 6	44.48	1484.88	2922.28	cps	
Window 8	270.82	2877.34	5377.89	cps	
Bulk Density	-	2.6020	1.6830	g/cc	
Pe	-	3.0000	2.5070	b/e	
LS Alpha:	: -1.8641	SS Alpha:	: -0.7692	LS CPE:	: 1.1004
LS Beta:	: 127931.7253	SS Beta:	: 20075.8142	SS CPE:	: 1.5209

Before Survey Background Counts Verification Performed: Wed Dec 31 18:00:00 1969

Window 1	0.00	cps
Window 2	0.00	cps
Window 4	0.00	cps
Window 5	0.00	cps
Window 6	0.00	cps
Window 8	0.00	cps

After Survey Background Counts Verification Performed: Wed Dec 31 18:00:00 1969

Window 1	0.00	cps
Window 2	0.00	cps
Window 4	0.00	cps
Window 5	0.00	cps
Window 6	0.00	cps
Window 8	0.00	cps

Lithodensity Caliper Calibration Performed: Fri Jan 18 10:53:52 2019

Results		Readings		References (in)		Gain	Offset
Low	High	Low	High	Low	High		
90.2	3611.6	8.0	14.0			0.0	7.8

Before Survey Caliper Verification Performed:

Reference	Reading
_____	_____
Caliper (in)	

After Survey Caliper Verification Performed:

Reference	Reading
_____	_____
Caliper (in)	

Serial Number:		080621PMC	
Tool Model:		NABORS	
PRE-SURVEY VERIFICATION			
Detector	Readings	Measured	Target
Short Space	cps		
Long Space	cps	pu	pu
POST-SURVEY VERIFICATION			
Detector	Readings	Measured	Target
Short Space	cps		
Long Space	cps	pu	pu
Gamma Ray Calibration Report			
Serial Number:	7		
Tool Model:	Probe1		
Performed:	Tue Feb 19 11:45:10 2019		
Calibrator Value:	1.0	GAPI	
Background Reading:	0.0	cps	
Calibrator Reading:	1.0	cps	
Sensitivity:	0.4300	GAPI/cps	