

**NABORS****COMPLETION
& PRODUCTION
SERVICES CO.****COMPENSATED
DENSITY / NEUTRON
LOG**

Company	STAAB OIL COMPANY	Well	GISELA NORTHEAST #1	Field	WILDCAT	County	ROOKS	State	KANSAS
Location:		APL # : 15-163-24294-0000		Other Services					
Permanent Datum		GROUND LEVEL		Elevation		1925			
Log Measured From		KELLY BUSHING 5' A.G.L.		DIL/MEL					
Drilling Measured From		KELLY BUSHING		Elevation		K.B. 1930 D.F. 1928 G.L. 1925			
Date	6/27/15								
Run Number	ONE								
Depth Driller	3445								
Depth Logger	3444								
Bottom Logged Interval	3420								
Top Log Interval	2700								
Casing Driller	8 5/8"@218'								
Casing Logger	218								
Bit Size	7 7/8"								
Type Fluid in Hole	CHEMICAL MUD	CHLORIDES 2,500 PPM							
Density / Viscosity	9.0/48								
pH / Fluid Loss	11.0/8.0								
Source of Sample	FLOWLINE								
Rim @ Meas. Temp	.950@88F								
Rmf @ Meas. Temp	.713@88F								
Rmc @ Meas. Temp	1.14@88F								
Source of Rmf / Rmc	MEASUREMENT								
Rim @ BHT	.753@111F								
Time Circulation Stopped	2 HOURS								
Time Logger on Bottom	10:00 A.M.								
Maximum Recorded Temperature	111F								
Equipment Number	4854								
Location	HAYS, KANSAS								
Recorded By	JEFF LUEBBERS								
Witnessed By	JANEL STAAB	FRANK STAAB							

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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 "NABORS" HAYS, KANSAS (785) 628-6395
DIRECTIONS
PLAINVILLE, KS., 8N. ON HWY 183 TO (WILKENS PLANT), 1W., 3/4N., E. INTO

**NABORS**
**COMPLETION
& PRODUCTION****MAIN SECTION**

Database File:

26625ddn.db

Dataset Pathname:

pass3.4

Presentation Format:

den_neu

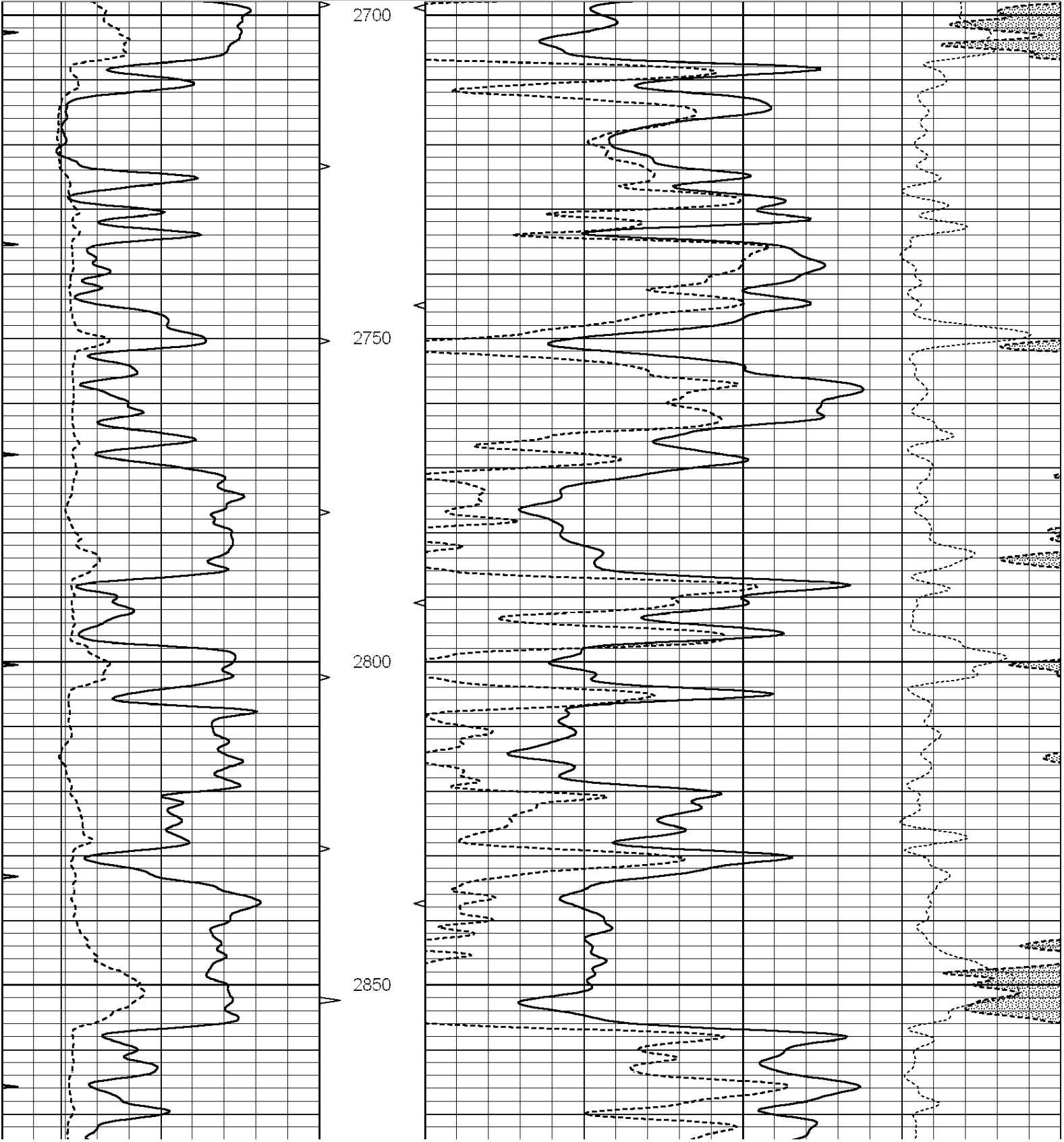
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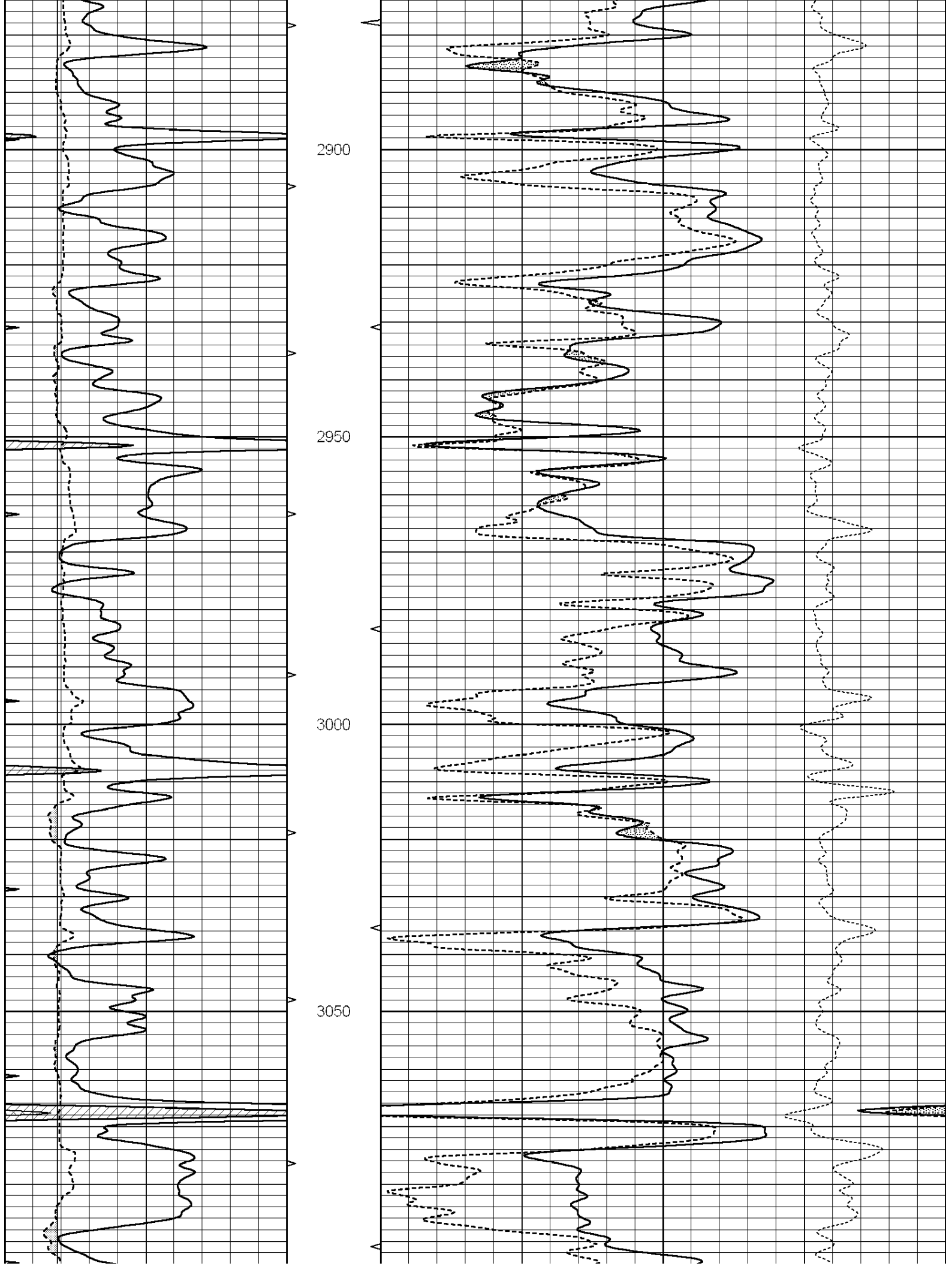
Sat Jun 27 11:13:42 2015 by Calc SOC 120430

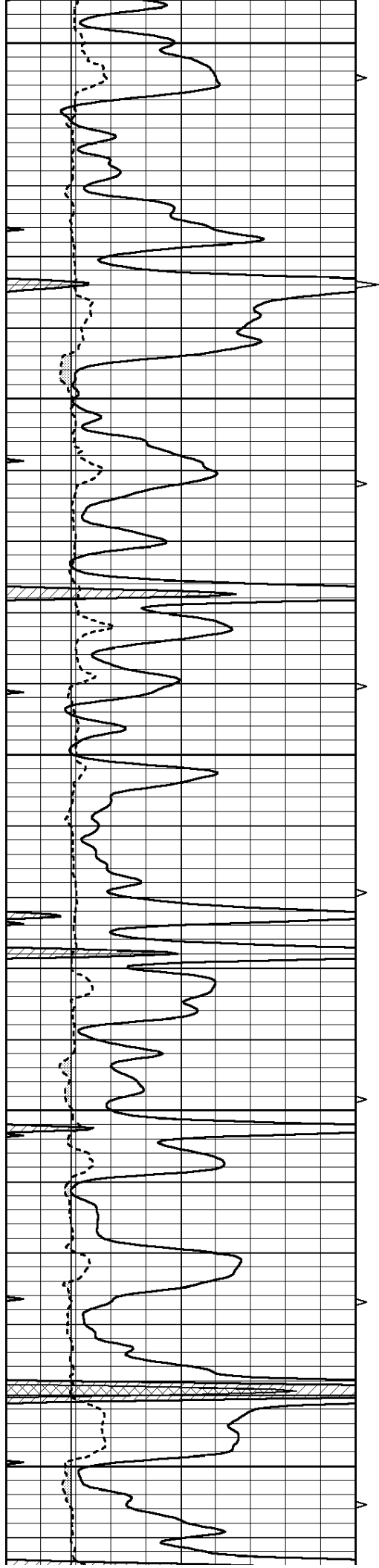
Charted by:

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		







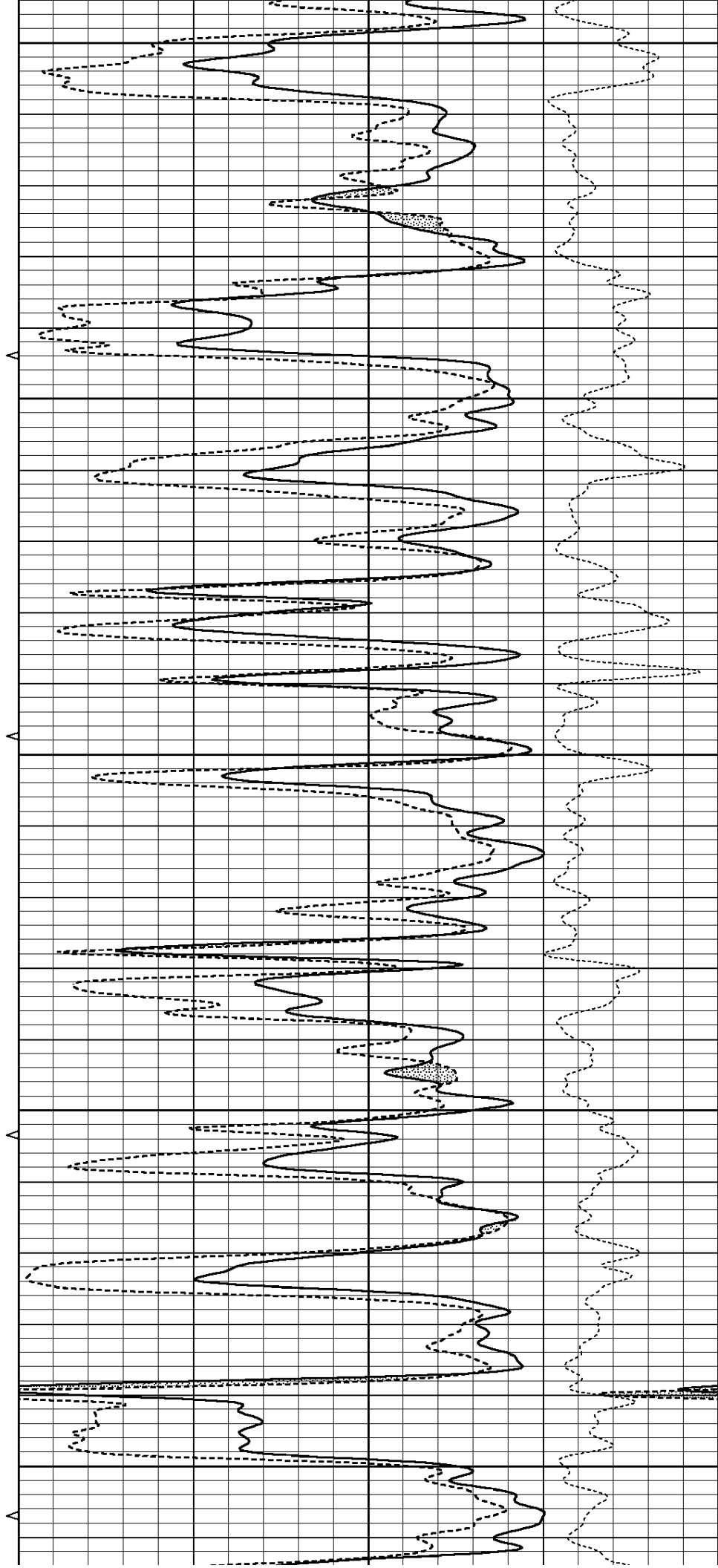
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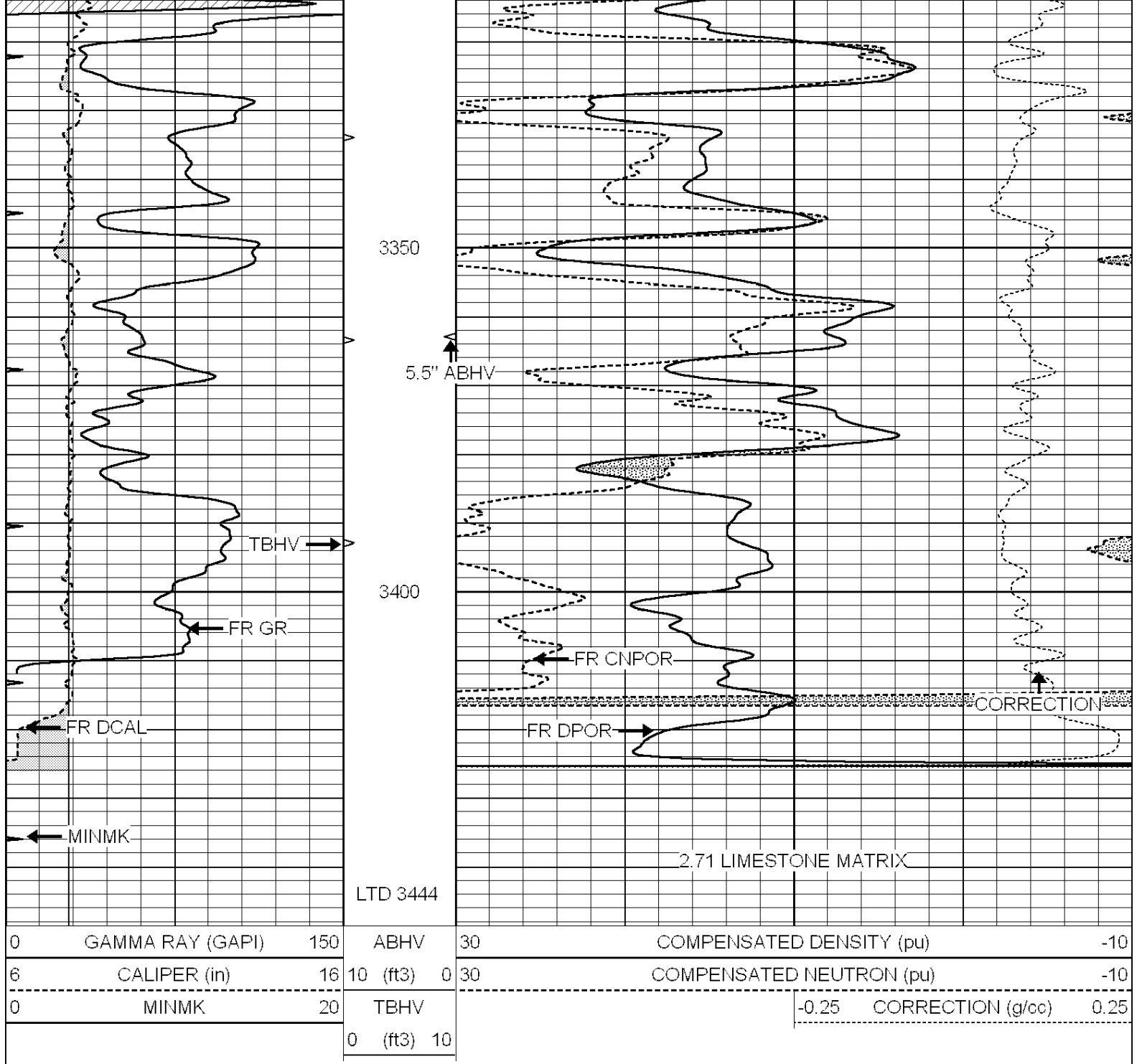
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3200

3250

3300





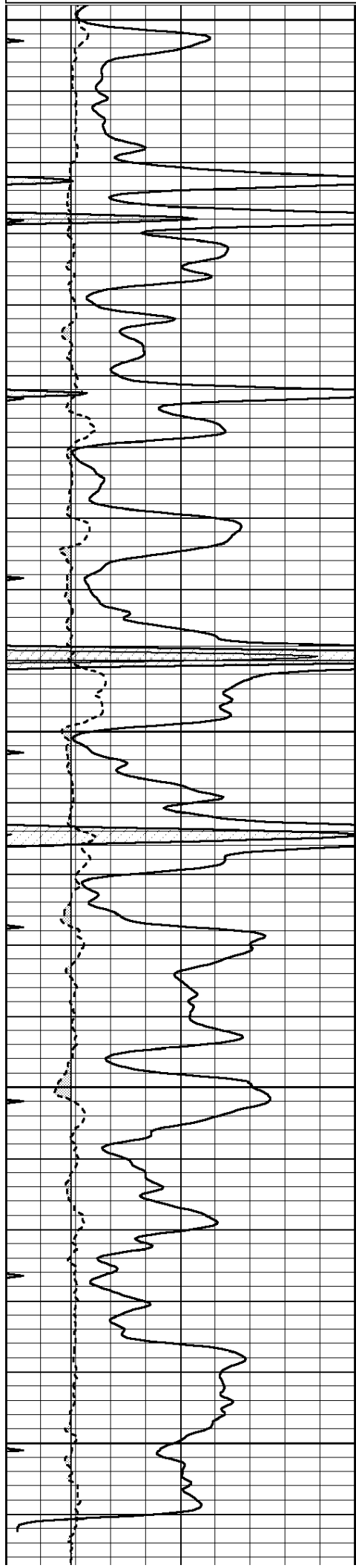
NABORS

**COMPLETION
& PRODUCTION
SERVICES CO.**

REPEAT SECTION

Database File: 26625ddn.db
 Dataset Pathname: pass2.4
 Presentation Format: den_neu
 Dataset Creation: Sat Jun 27 10:37:34 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		



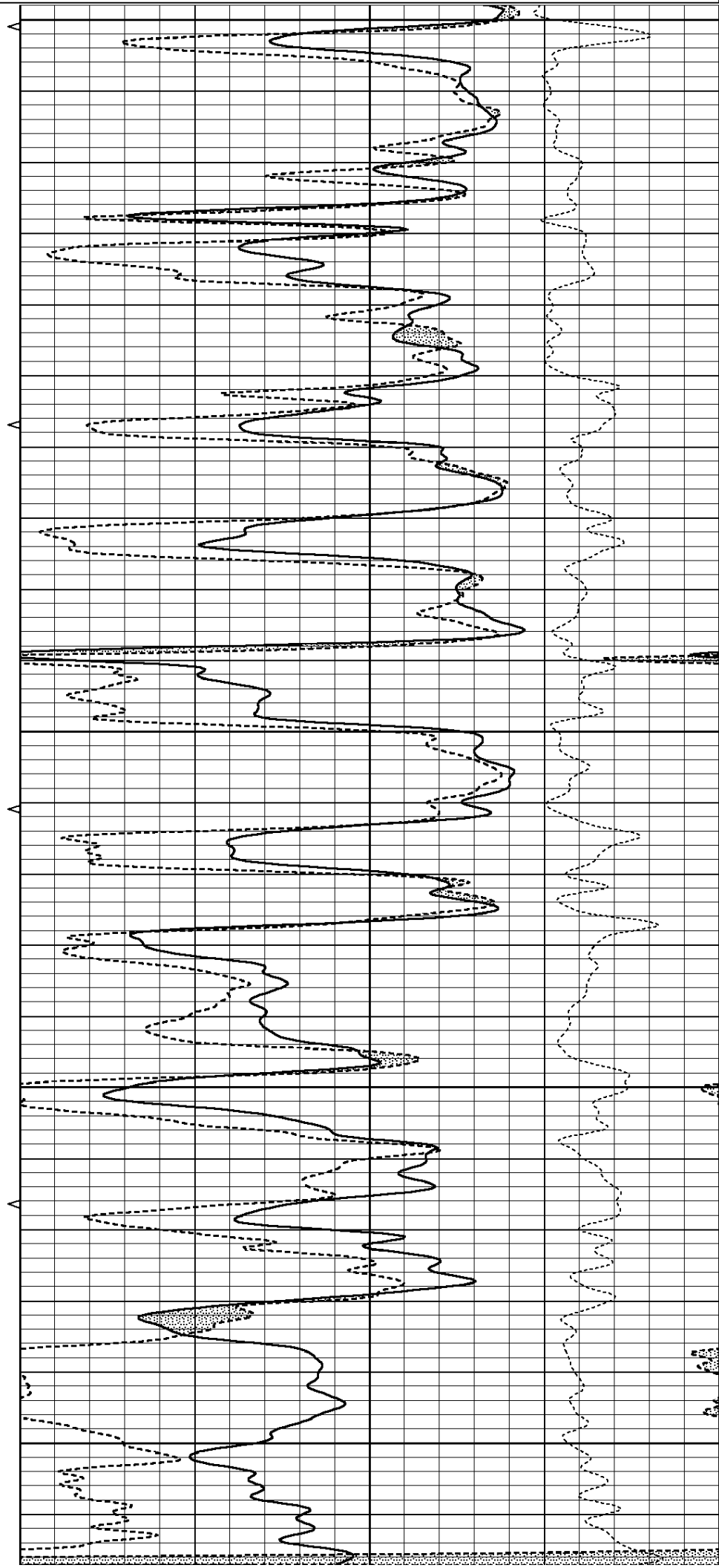
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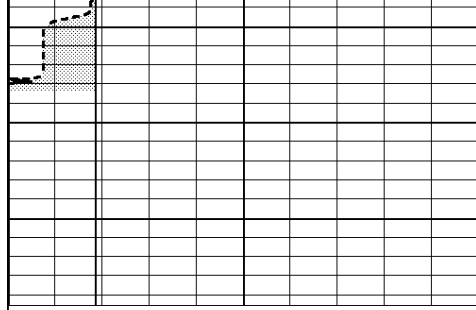
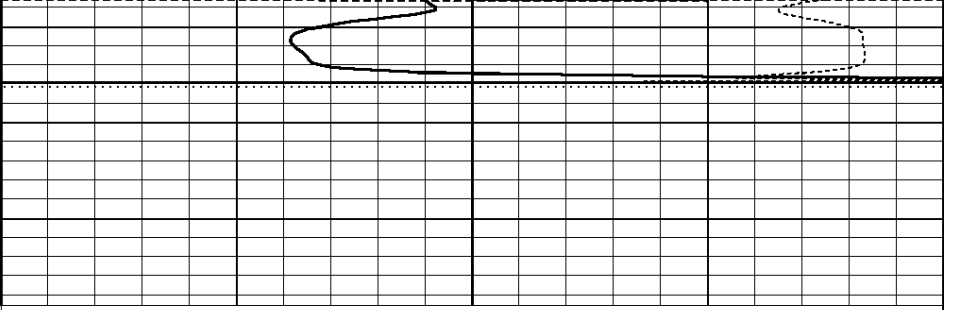
3250

3300

3350

3400



							
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: 26625ddn.db
Dataset Pathname: pass3.4
Dataset Creation: Sat Jun 27 11:13:42 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

			Readings		References			Results	
Loop:	Air	Loop			Air	Loop		m	b
Deep	-0.014	0.629	V		0.000	400.000	mmho/m	670.000	-18.000
Medium	0.039	0.728	V		0.000	464.000	mmho/m	670.000	-32.000
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

	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	

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Compensated Neutron Calibration Report
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Serial Number:	070808
Tool Model:	Probe

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:	070558
Tool Model:	OPEN CR

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