



Microresistivity Log

Pioneer Energy Services

API No.

15-065-24081-00-00

Company H&C Oil Operating, Inc.

Well Griffith Unit #3-1

Field Wildcat

County Graham

State

Kansas

Location

2560' FNL & 290' FEL

Sec: 3

Twp: 8S

Rge: 22W

Permanent Datum Ground Level Elevation 2154
Log Measured From Kelly Bushing 7 Ft. Above Perm. Datum
Drilling Measured From Kelly Bushing

Other Services
CNL/CDL
DIL
Elevation
K.B. 2161
D.F. 2154
G.L. 2154

Date 11/13/2014

Run Number Two

Depth Driller 3803

Depth Logger 3805

Bottom Logged Interval 3804

Top Log Interval 3050

Casing Driller 8.625 @ 261

Casing Logger 264

Bit Size 7.875

Type Fluid in Hole Chemical

Salinity, ppm CL 1100

Density / Viscosity 9.3 58

pH / Fluid Loss 10.5 6.4

Source of Sample Flowline

Rm @ Meas. Temp 2.3 @ 42

Rmf @ Meas. Temp 1.73 @ 42

Rmc @ Meas. Temp 3.11 @ 42

Source of Rmf / Rmc Charts

Rm @ BHT 0.85 @ 114

Operating Rig Time 4 Hours

Max Rec. Temp. F 114

Equipment Number 91

Location Hays

Recorded By D. Schmidt

Witnessed By Marc Downing

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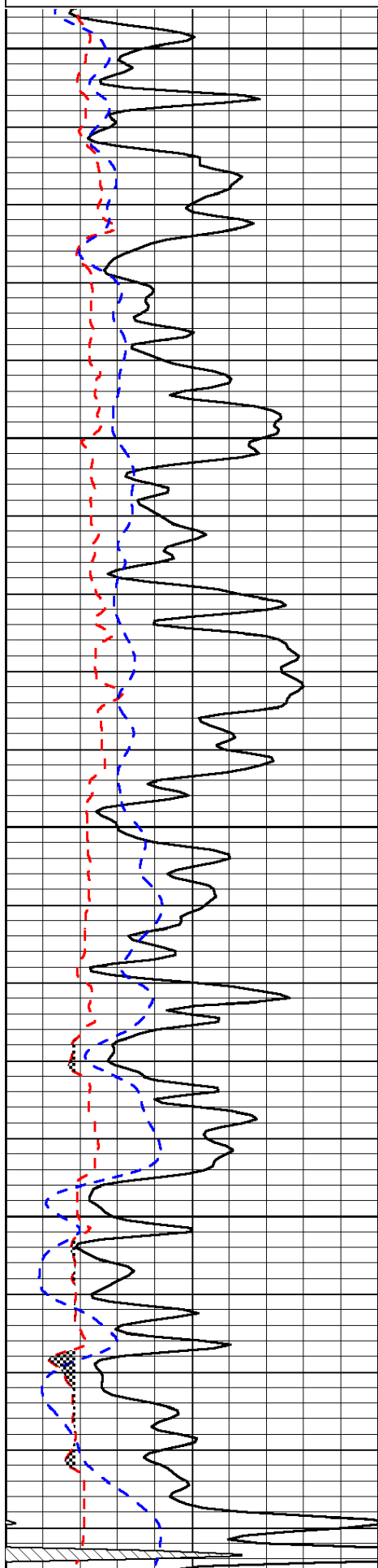
All interpretations are opinions based on inferences from electrical or other measurements and we cannot and do not guarantee the accuracy or correctness of any interpretation, and we shall not, except in the case of gross or willful negligence on our part, be liable or responsible for any loss, costs, 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 Pioneer Energy Services
www.pioneerres.com
785 625 3858
Bogue,
North to Hwy 24, 3 West to 320 Rd,
1/2 North into

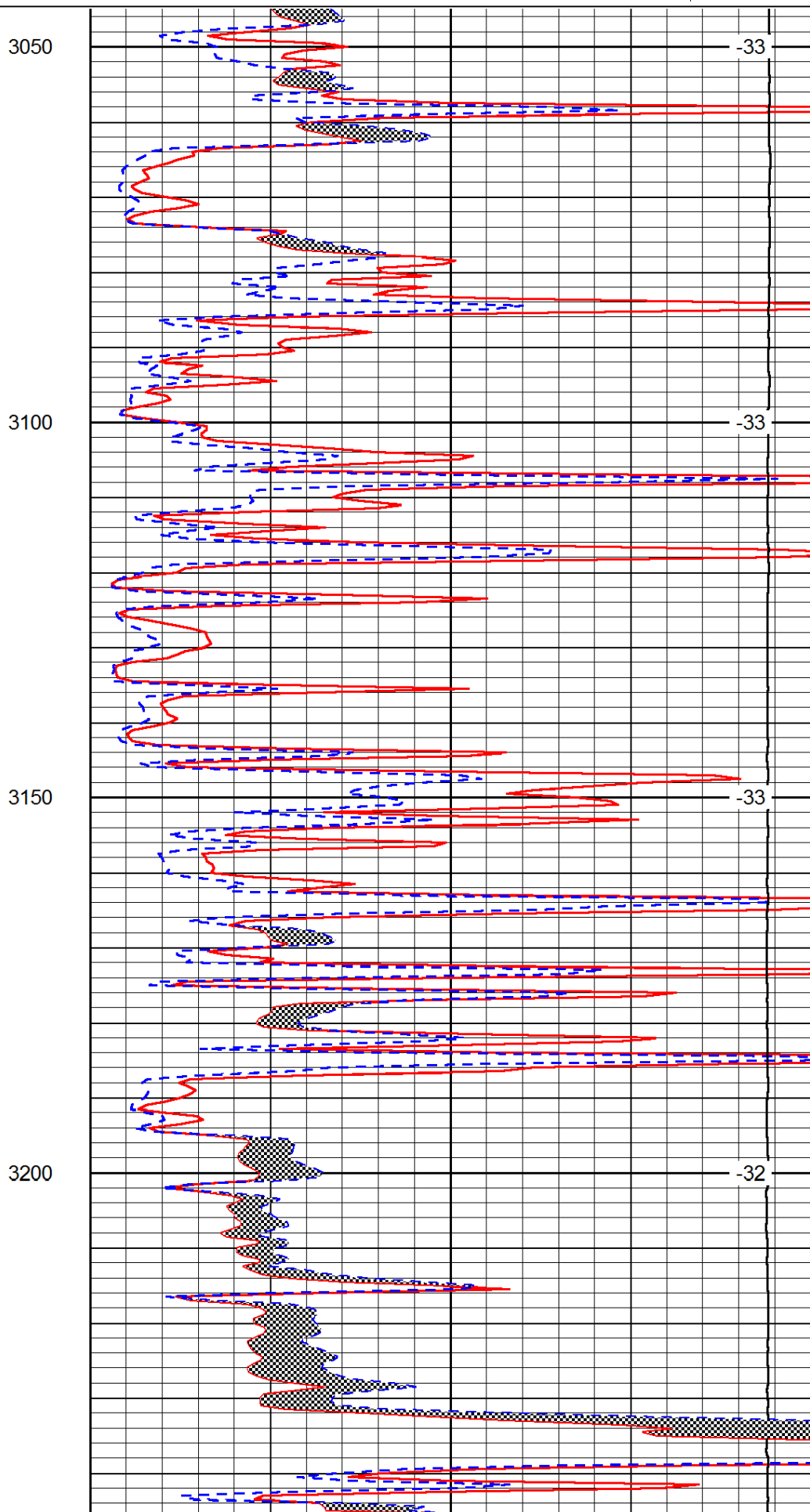
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Dataset Pathname: dil\hcstack
Presentation Format: micro
Dataset Creation: Thu Nov 13 13:16:04 2014
Charted by: Depth in Feet scaled 1:240

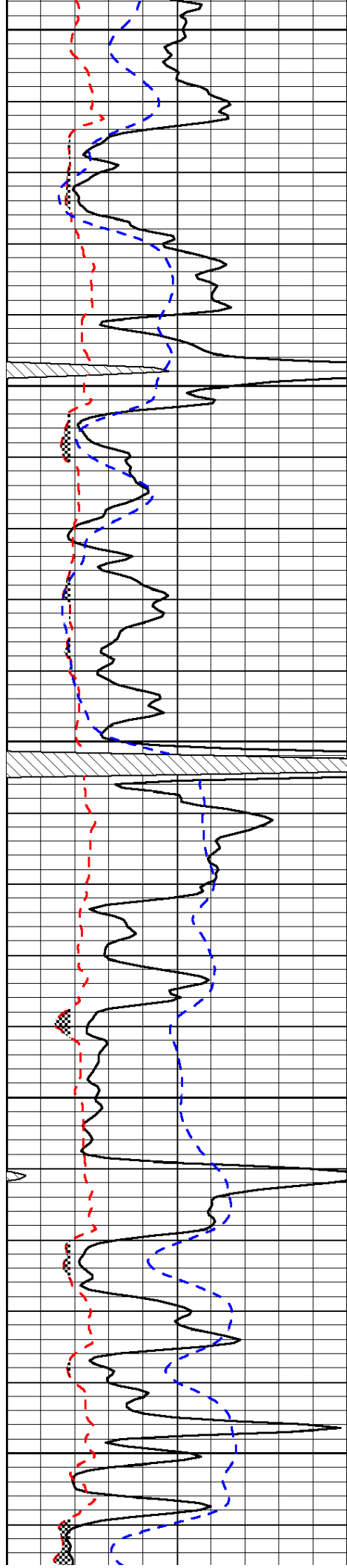
0	Gamma Ray	150
6	MCAL (GAPI)	16
-200	SP (mV)	0



0	Micro Inverse 1 X 1	40
0	Micro Normal 2"	40
15000	Line Weight	0

LSPD





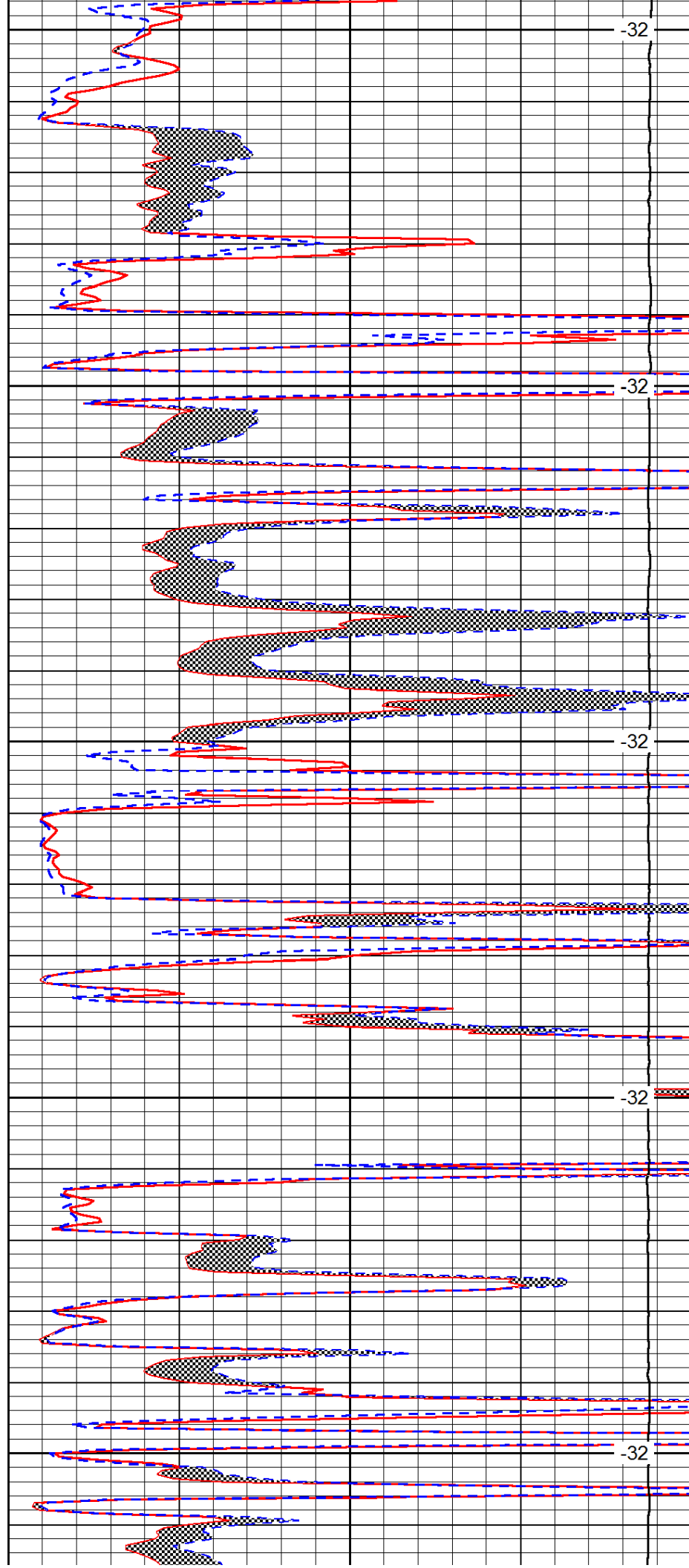
3250

3300

3350

3400

3450



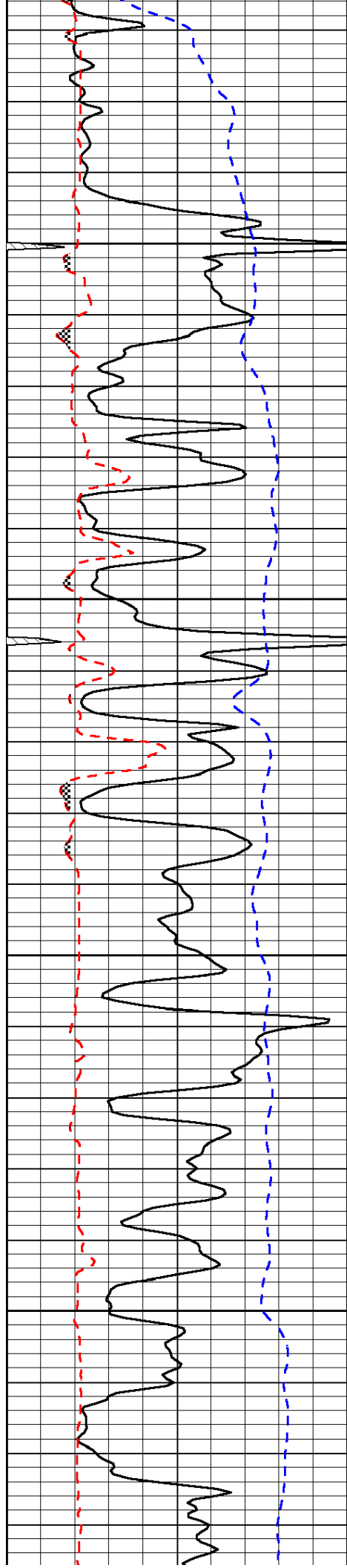
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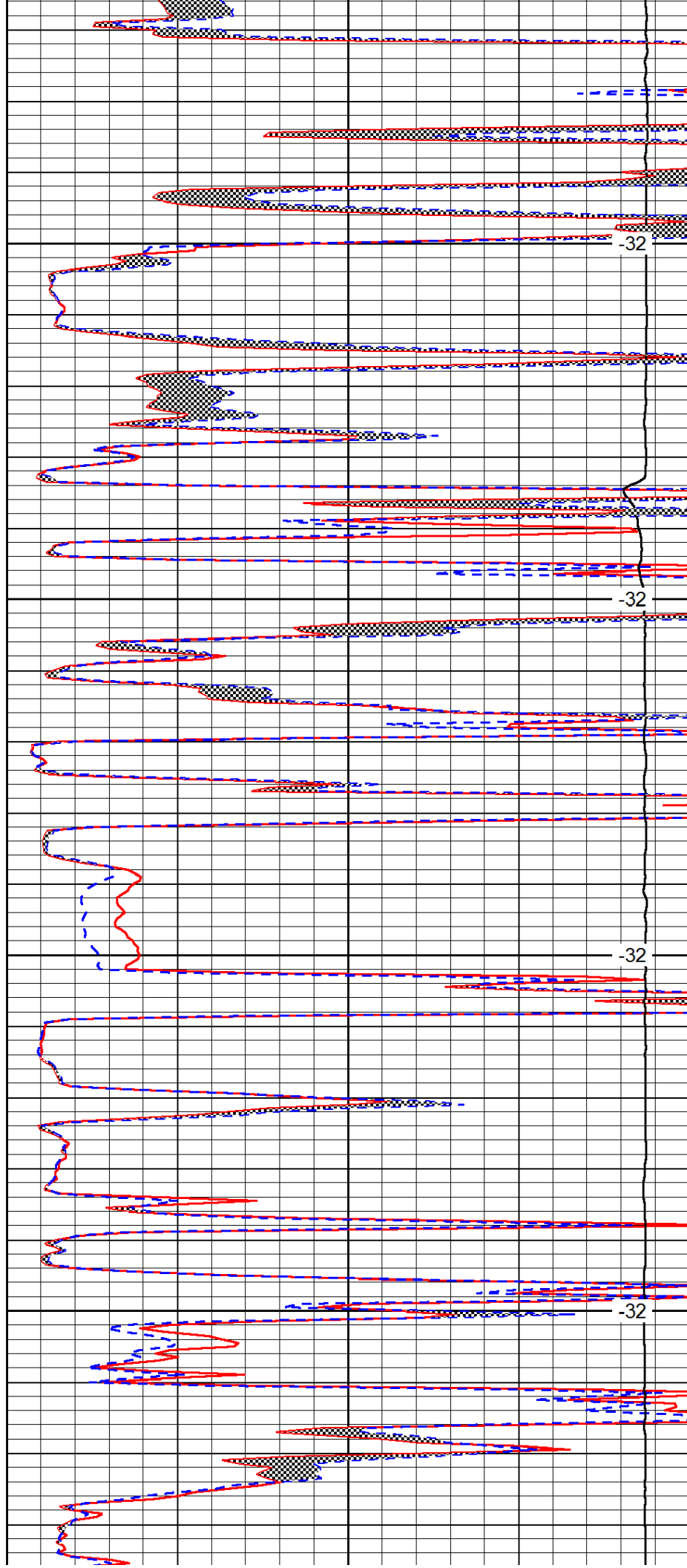


3500

3550

3600

3650

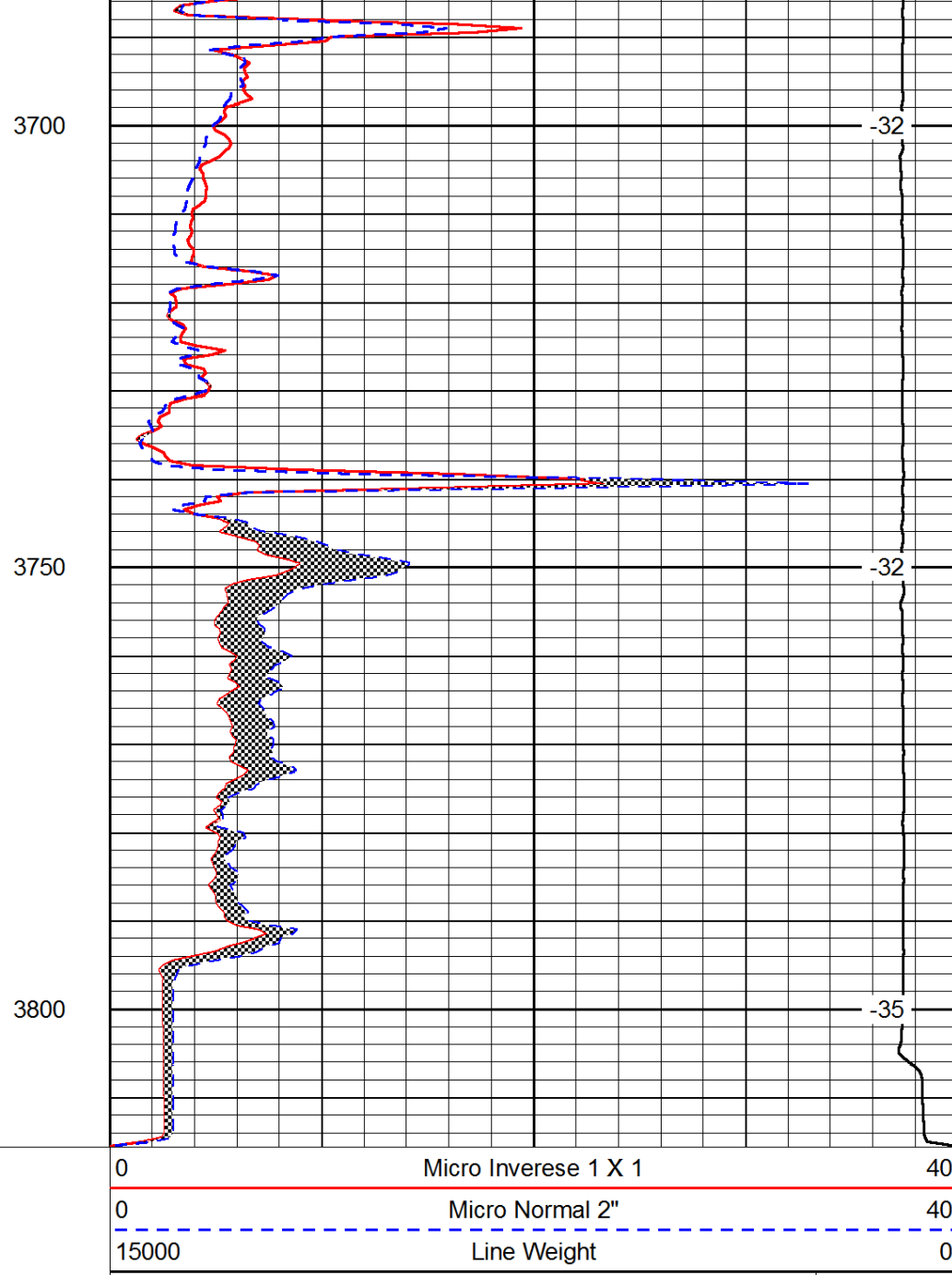
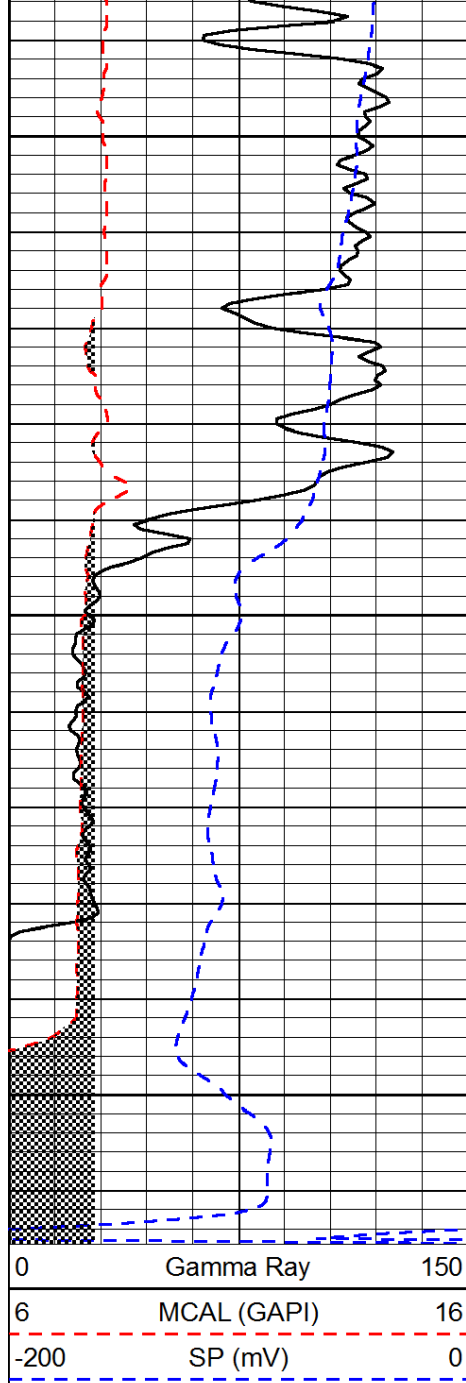


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LSPD