

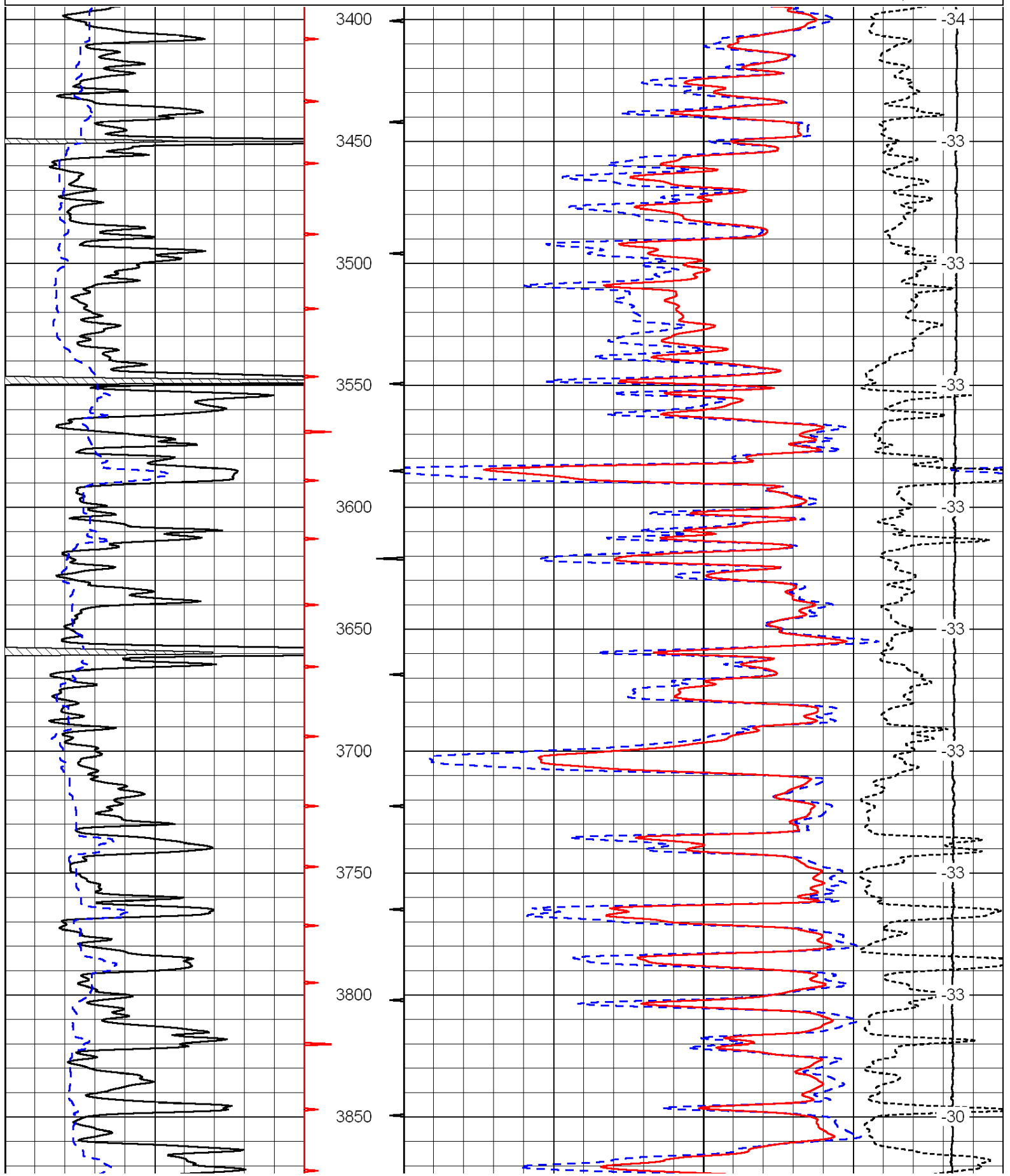


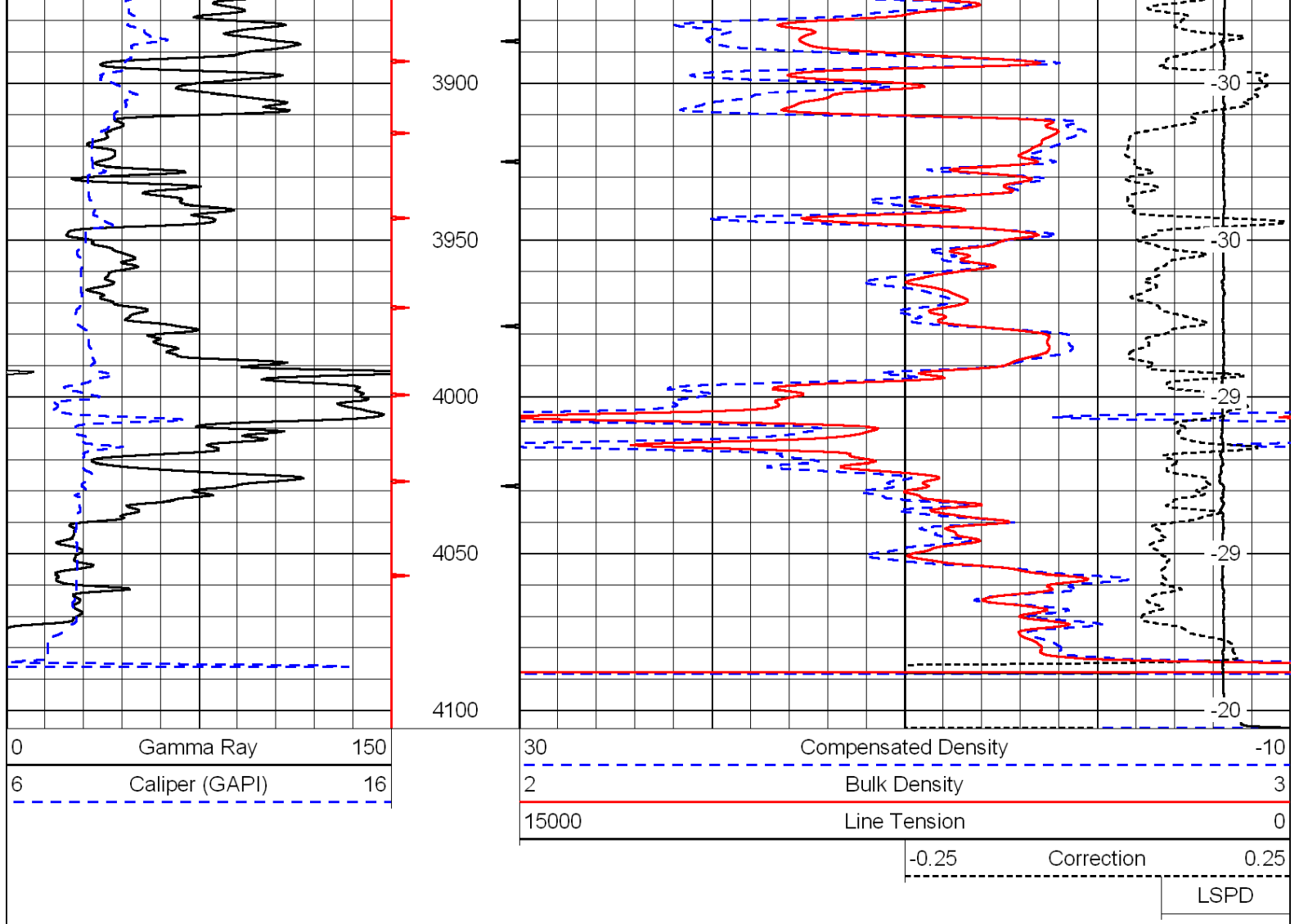
Dual Compensated
Porosity Log

DIGITAL LOG (785) 625-3858

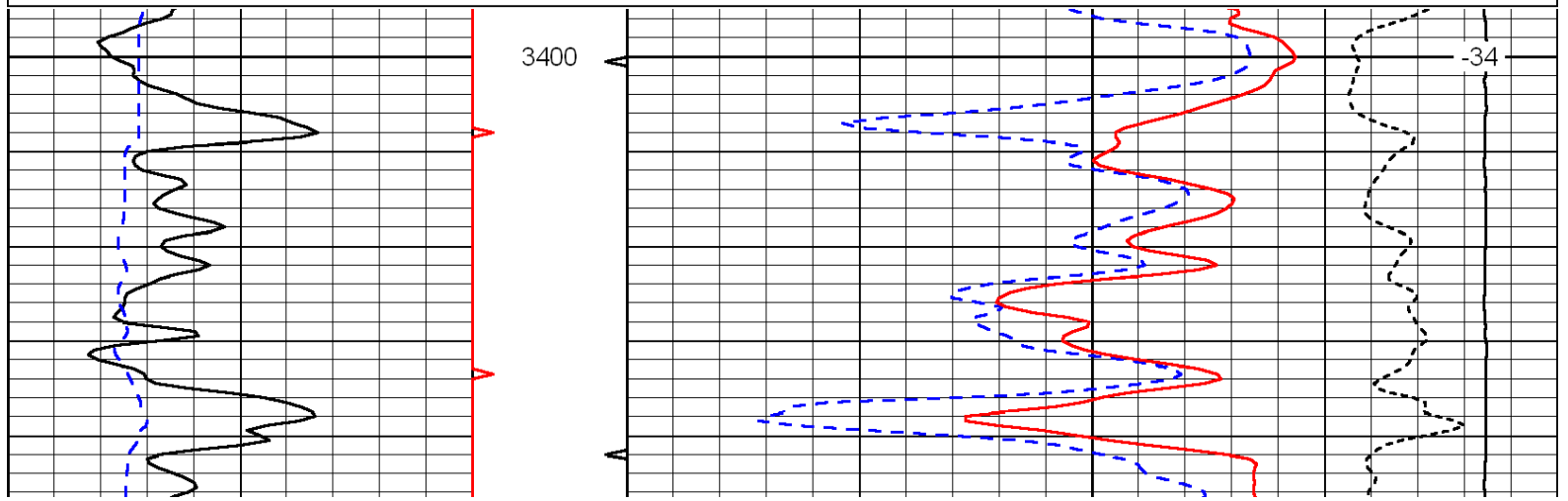
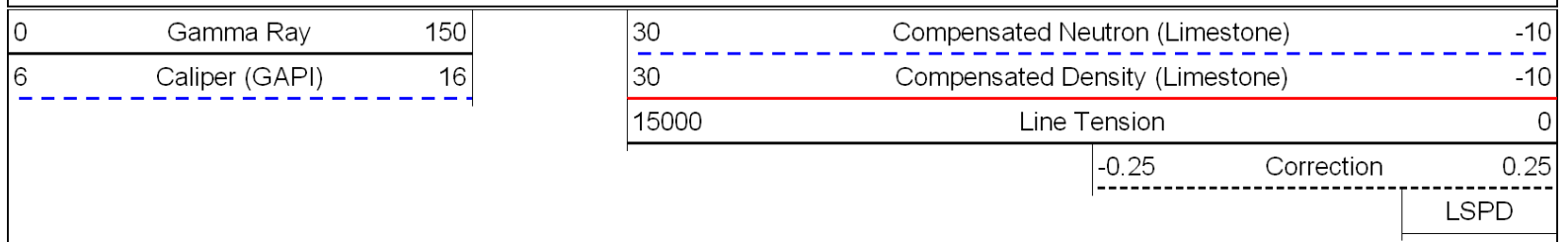
API No.		Company Hess Oil Company Well Velma Unit No. 1 Field County Rush State Kansas									
15-165-21,918-00-00		Location 145' FSL & 2,600' FEL Sec: 13 Twp: 17 S Rge: 20 W						Other Services DIL BHCS			
Permanent Datum		Ground Level		Elevation 2177		Elevation					
Log Measured From		Kelly Bushing		5 Ft. Above Perm. Datum		K.B. 2182 D.F. 2177 G.L. 2177					
Drilling Measured From		Kelly Bushing									
Date		3/15/2011									
Run Number		One									
Type Log		CNL / CDL									
Depth Driller		4100									
Depth Logger		4098									
Bottom Logged Interval		4077									
Top Logged Interval		3400									
Type Fluid In Hole		Chemical									
Salinity, PPM CL		3000									
Density		9.2									
Level		Full									
Max. Rec. Temp. F		117									
Operating Rig Time		4 Hours									
Equipment -- Location		10 Days									
Recorded By		Jim Schuler									
Witnessed By		Jamie Hess									
Borehole Record				Casing Record							
Run No.	Bit	From	To	Size	Wgt.	From	To				
1	12.25	00	225	8.625	24#	00	225				
2	7.875	225	4100								

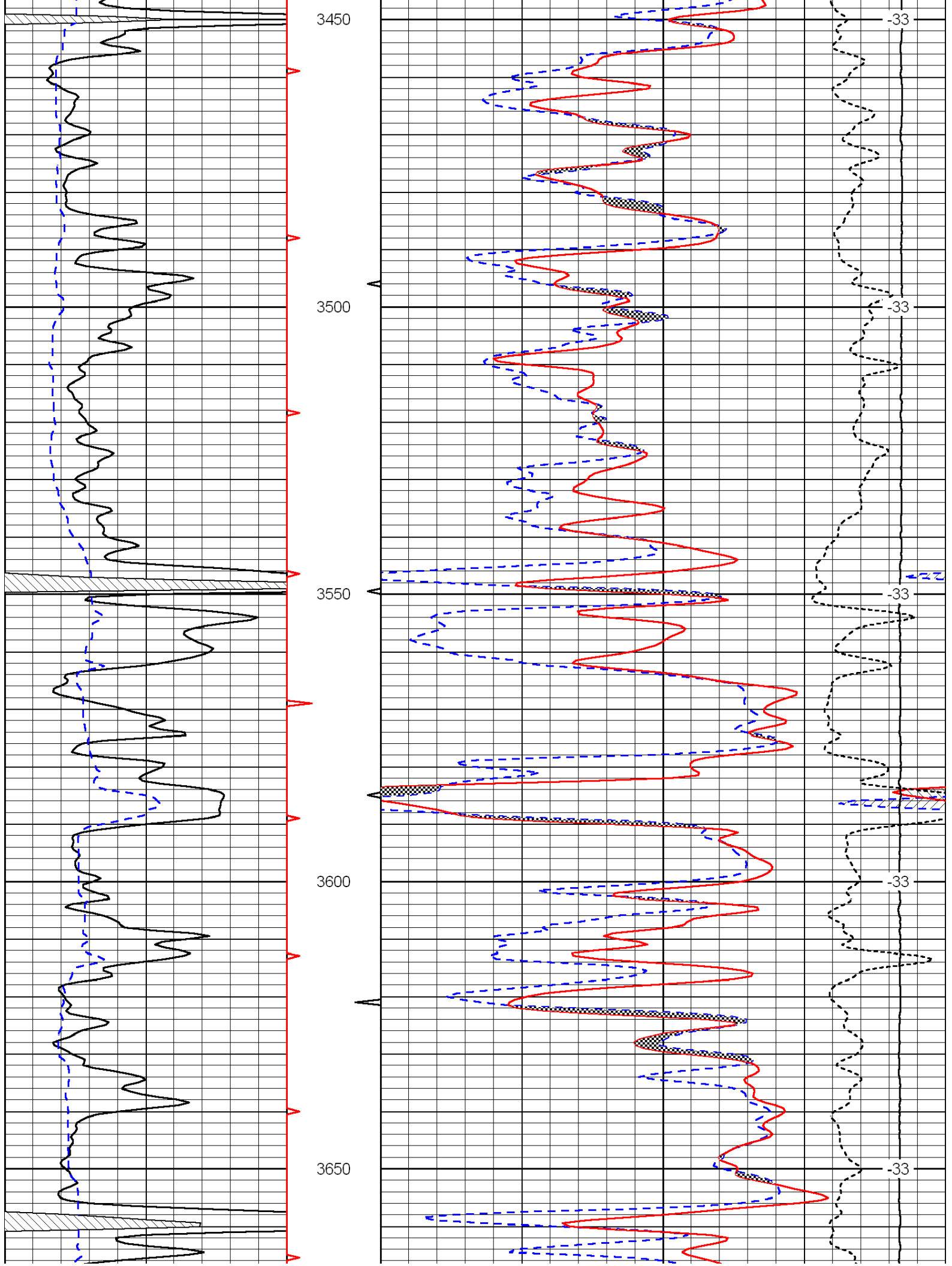
Charted by: Depth in Feet scaled 1:600					
0	Gamma Ray	150	30	Compensated Density	-10
6	Caliper (GAPI)	16	2	Bulk Density	3
			15000	Line Tension	0
			-0.25 Correction 0.25		
			LSPD		

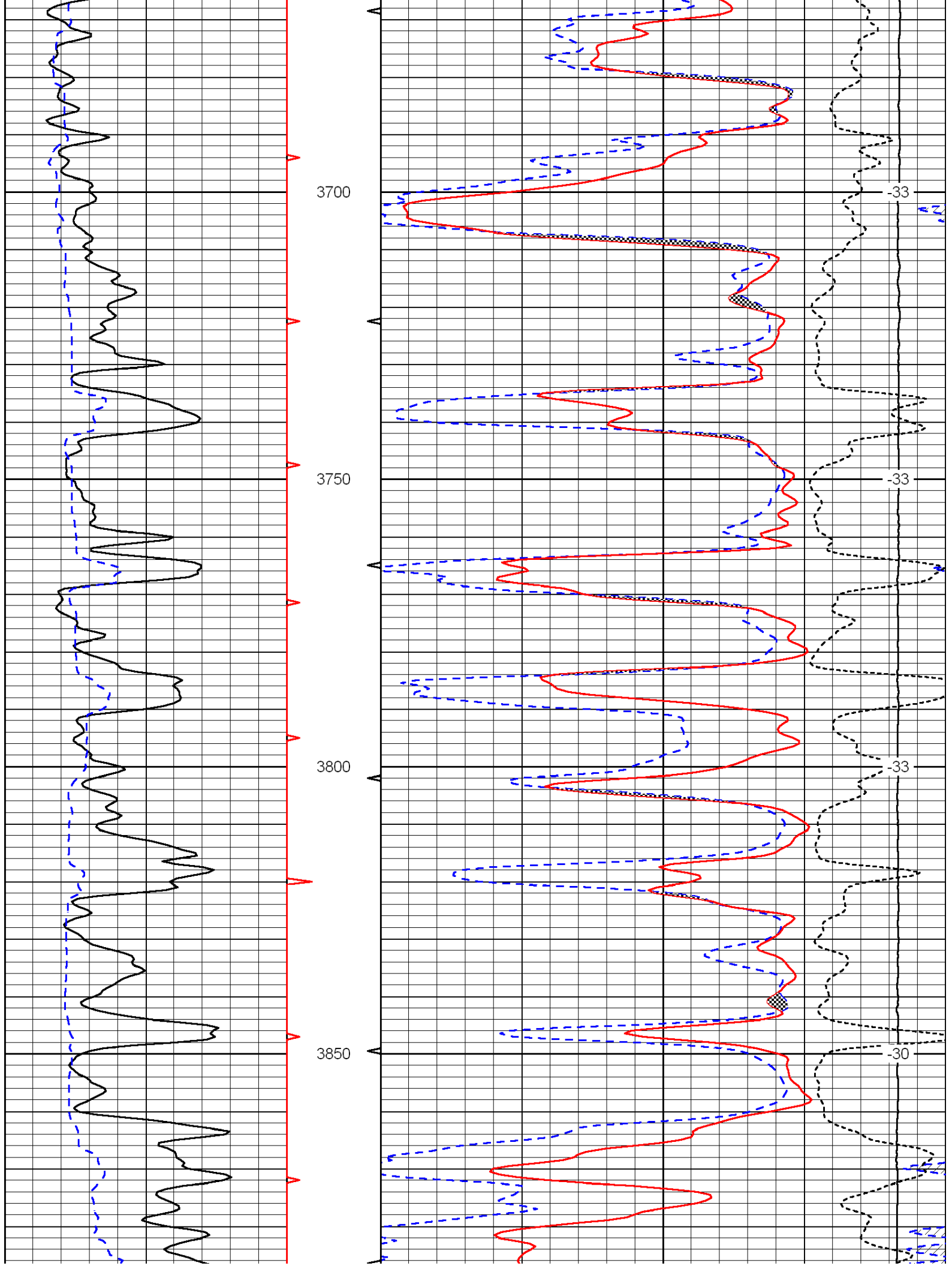


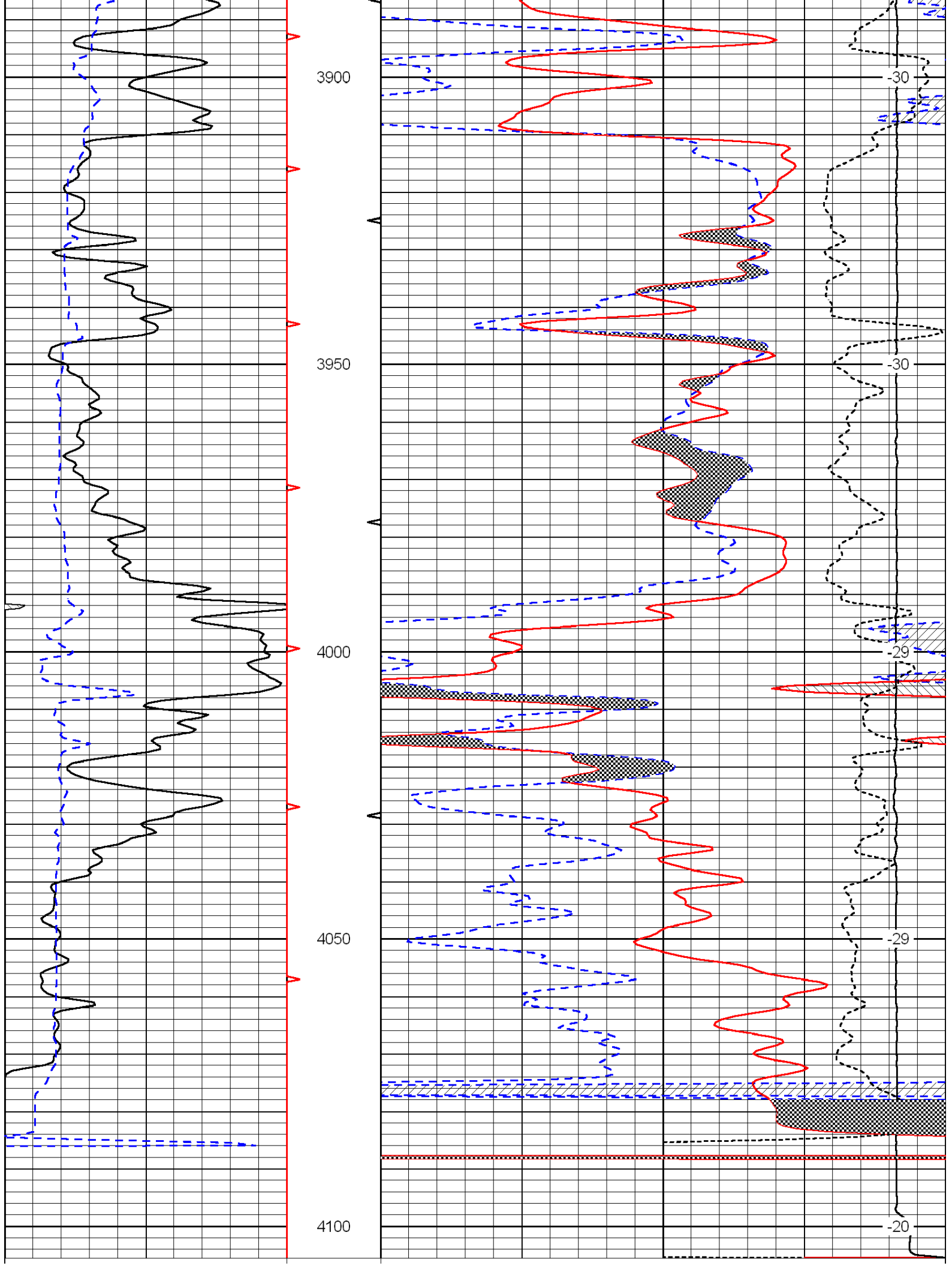


Database File: c:\warrior\data\hess_velma no. 1\hess_velma_1hd.db
Dataset Pathname: DIL/hesstk
Presentation Format: cndlspec
Dataset Creation: Tue Mar 15 18:31:54 2011
Charted by: Depth in Feet scaled 1:240









0	Gamma Ray	150
6	Caliper (GAPI)	16

30	Compensated Neutron (Limestone)	-10
30	Compensated Density (Limestone)	-10
15000	Line Tension	0
	-0.25 Correction 0.25	
		LSPD