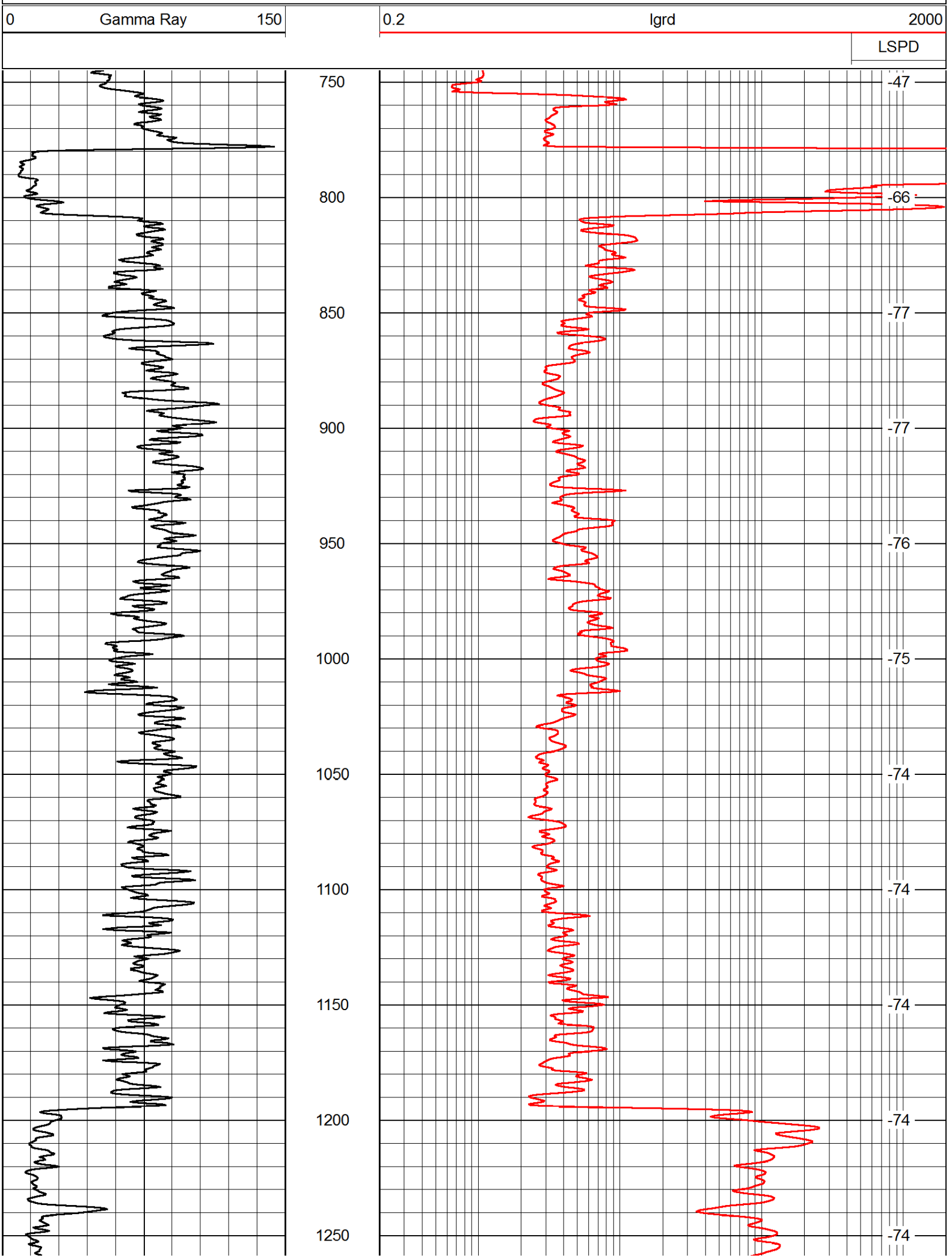
PIONEER

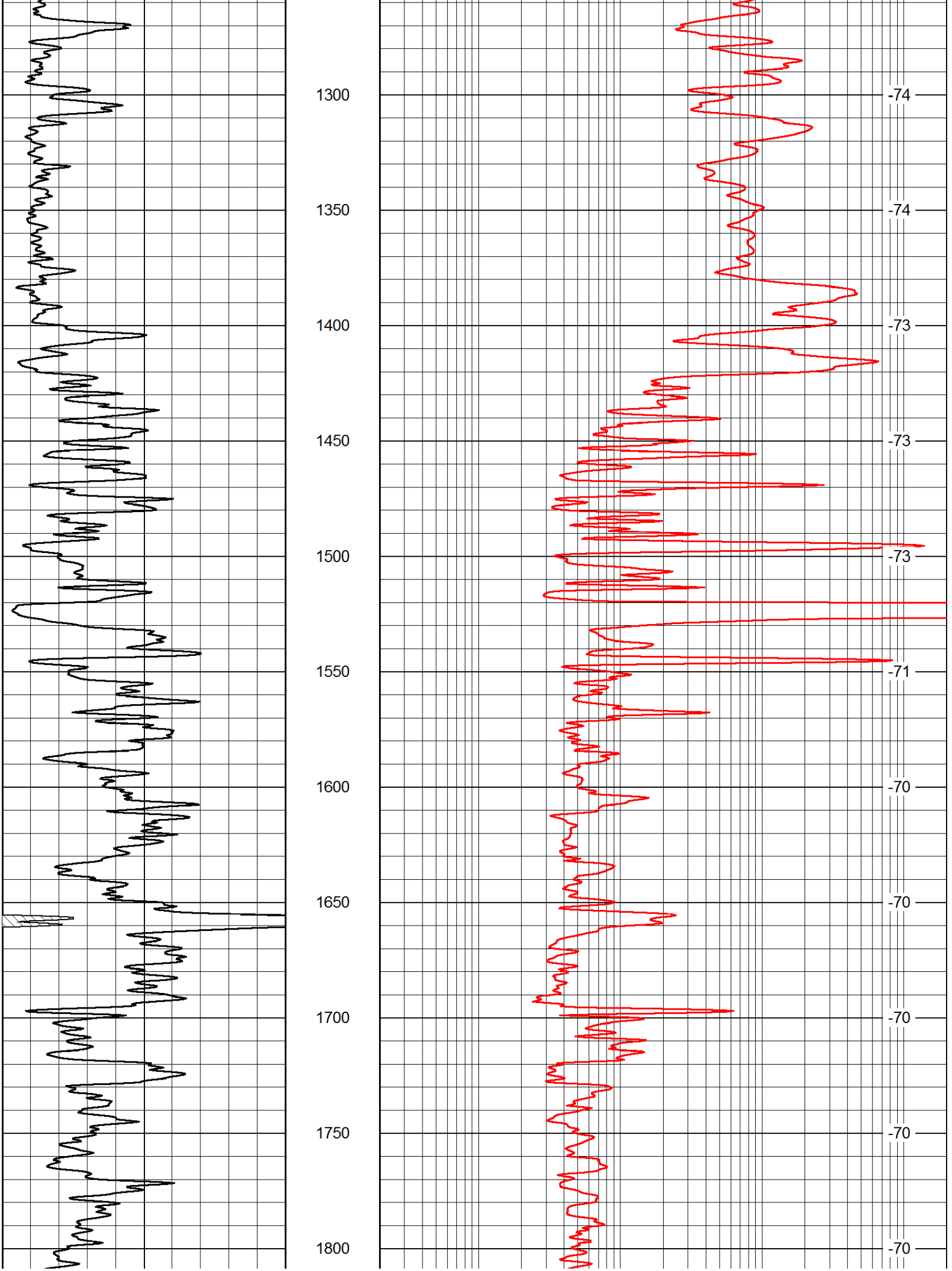
Pioneer Energy Services

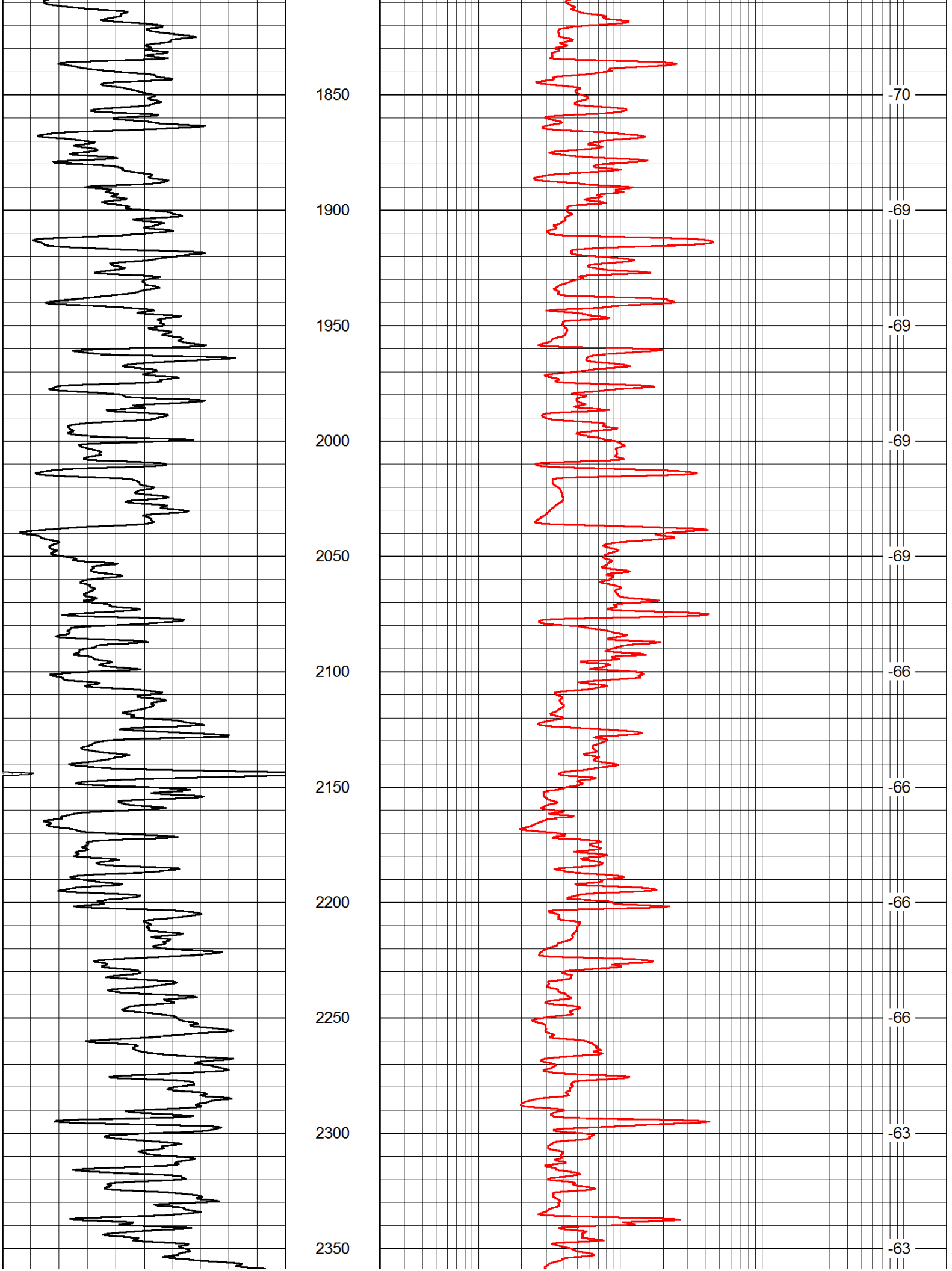
# Radiation Guard Log

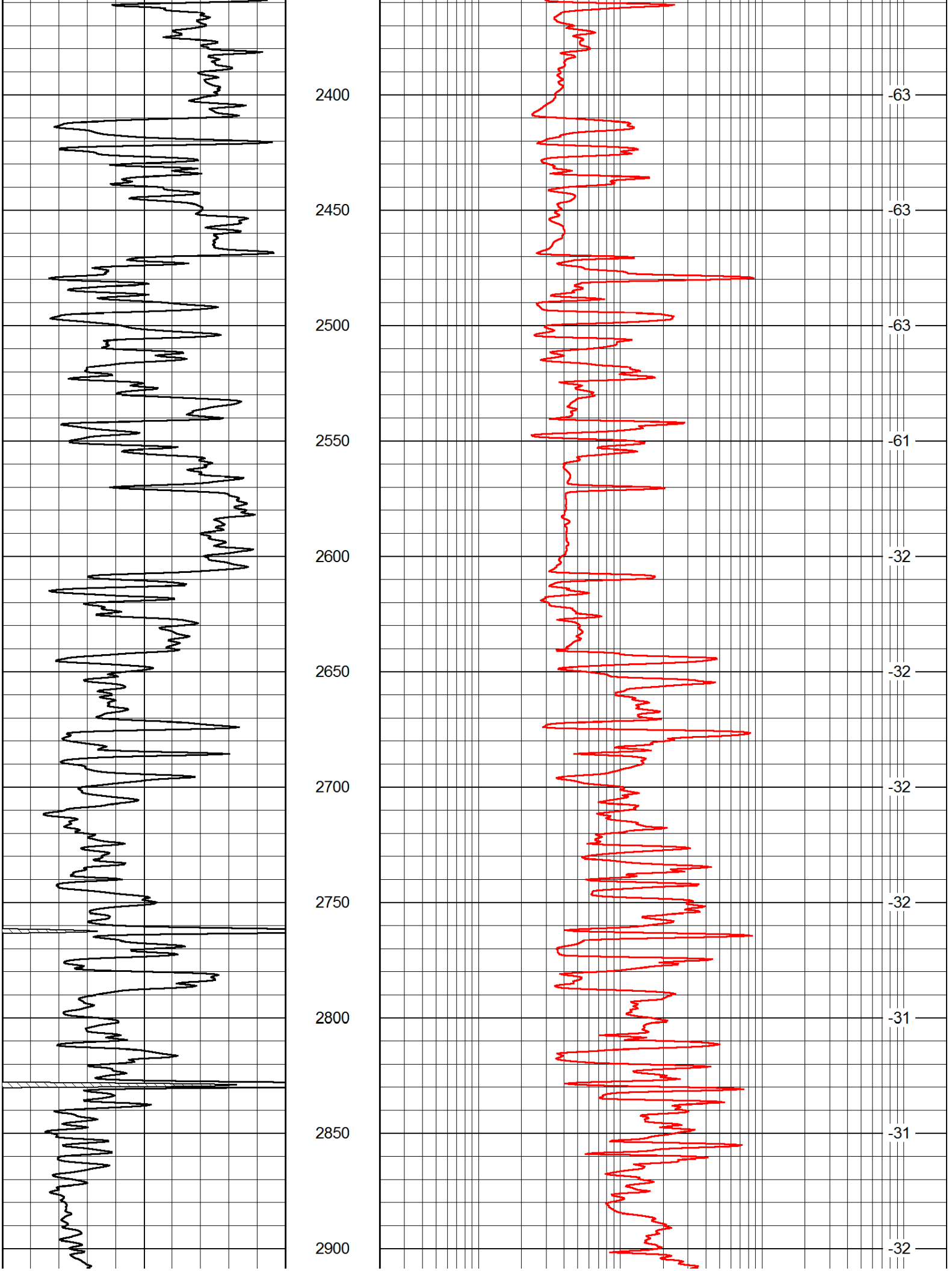
| | |
|---|---|
| Company | H & D Exploration, LLC |
| Well | Kaufman A # 1 |
| Field | Hall - Gurney |
| County | Russell |
| State | Kansas |
| API No. | 15-167-23,900-00-00 |
| Location | W2 SW SE NW<br>2310' FNL & 1447' FWL |
| | Sec: 9 Twp: 15 S Rge: 12 W |
| Permanent Datum | Ground Level |
| Log Measured From | Kelly Bushing |
| Drilling Measured From | Kelly Bushing |
| | Elevation 1853 |
| | 8 Ft. Above Perm. Datum |
| Other Services | None |
| Elevation | K.B. 1861<br>D.F.<br>G.L. 1853 |

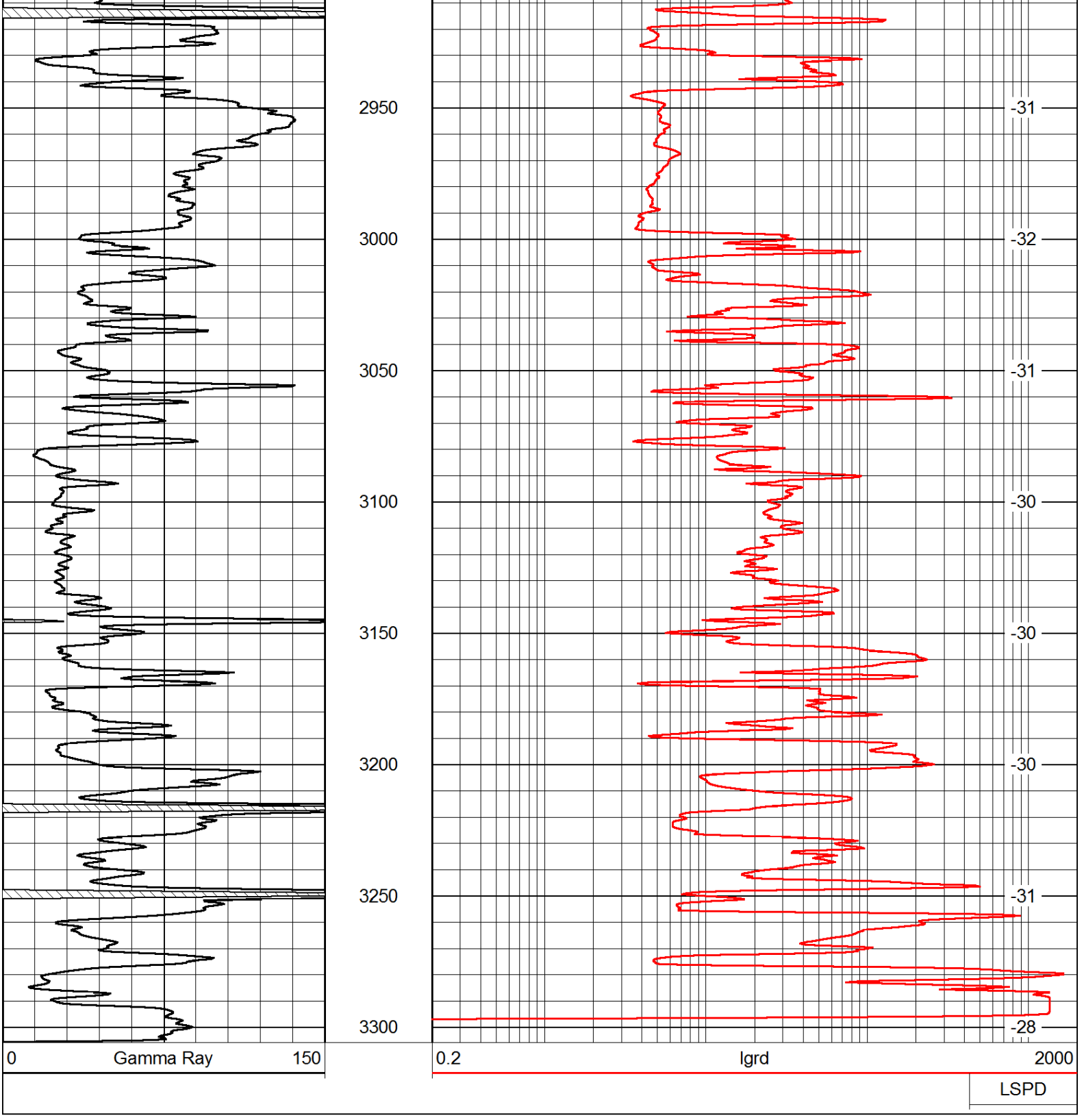
| | | |


0
Gamma Ray
150
0.2
lgrd
2000
LSPD
750
800
850
900
950
1000
1050
1100
1150
1200
1250
-47
-66
-77
-77
-76
-75
-74
-74
-74
-74
-74


1300
1350
1400
1450
1500
1550
1600
1650
1700
1750
1800
-74
-74
-73
-73
-73
-71
-70
-70
-70
-70
-70


1850
1900
1950
2000
2050
2100
2150
2200
2250
2300
2350
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-66
-66
-63
-63

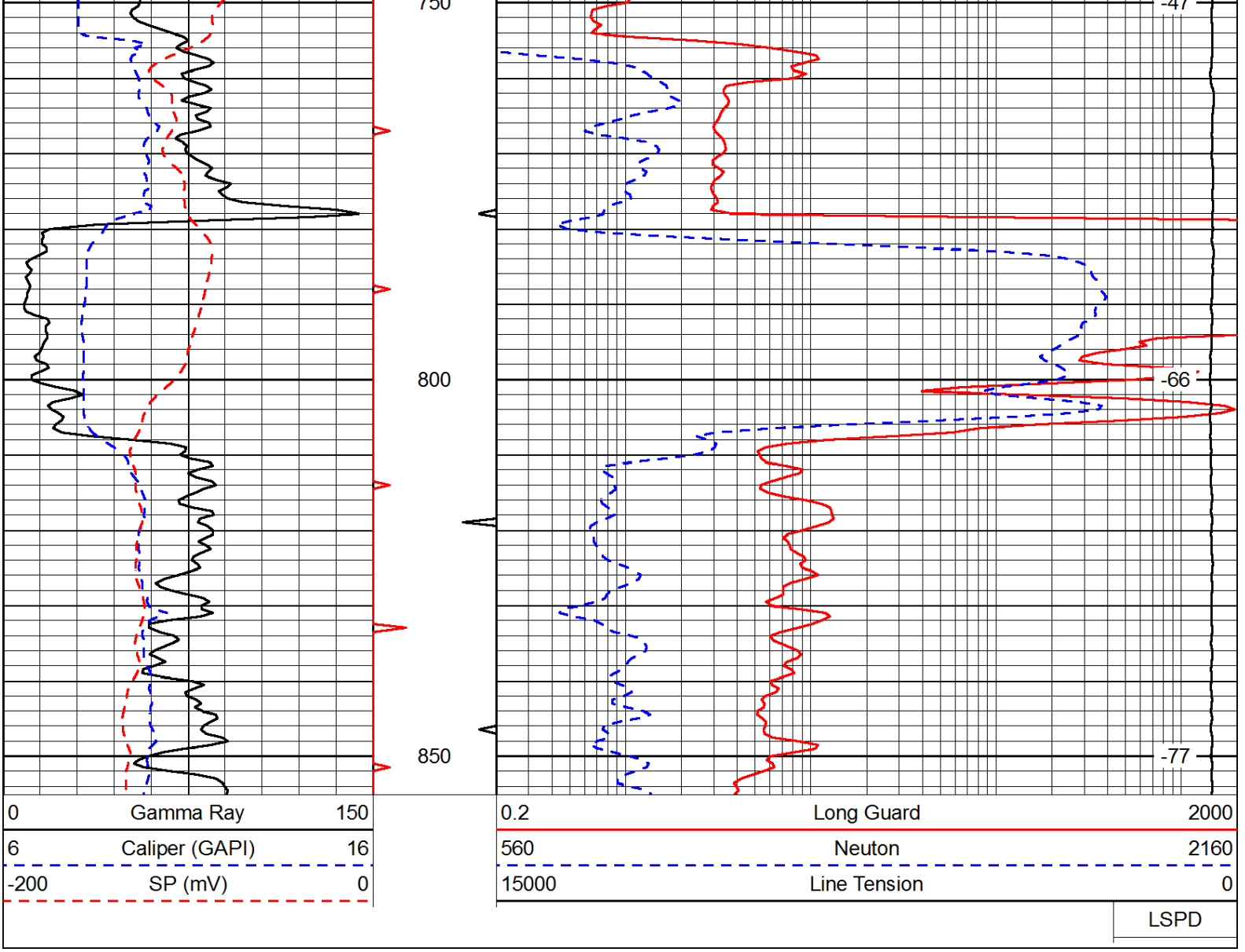

2400
2450
2500
2550
2600
2650
2700
2750
2800
2850
2900
-63
-63
-63
-61
-32
-32
-32
-32
-31
-31
-32



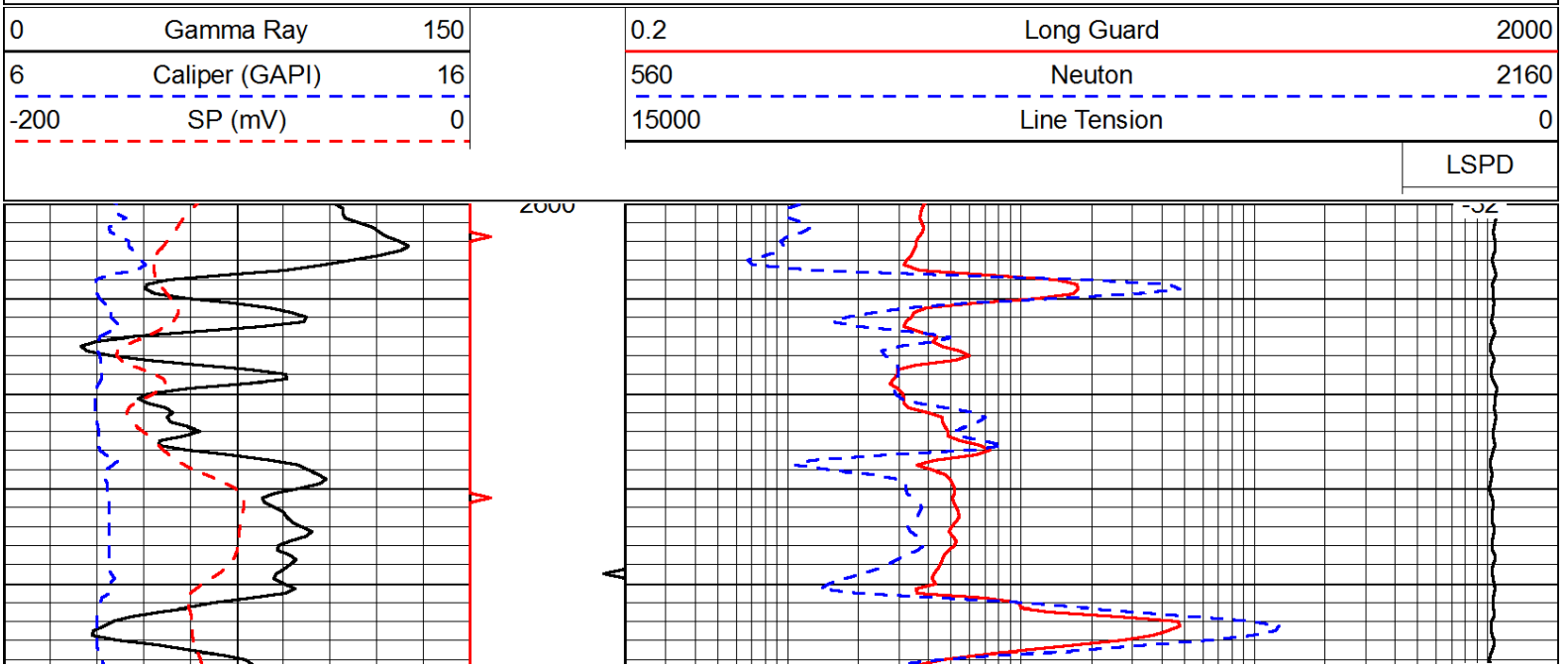

| | |
|---|---|
| Database File: | c:\warrior\data\h&d_kaufman a # 1\h&d_kaufmana_1hd.db |
| Dataset Pathname: | rag/h&drag |
| Presentation Format: | rag |
| Dataset Creation: | Sat Aug 24 02:56:27 2013 |
| Charted by: | Depth in Feet scaled 1:240 |

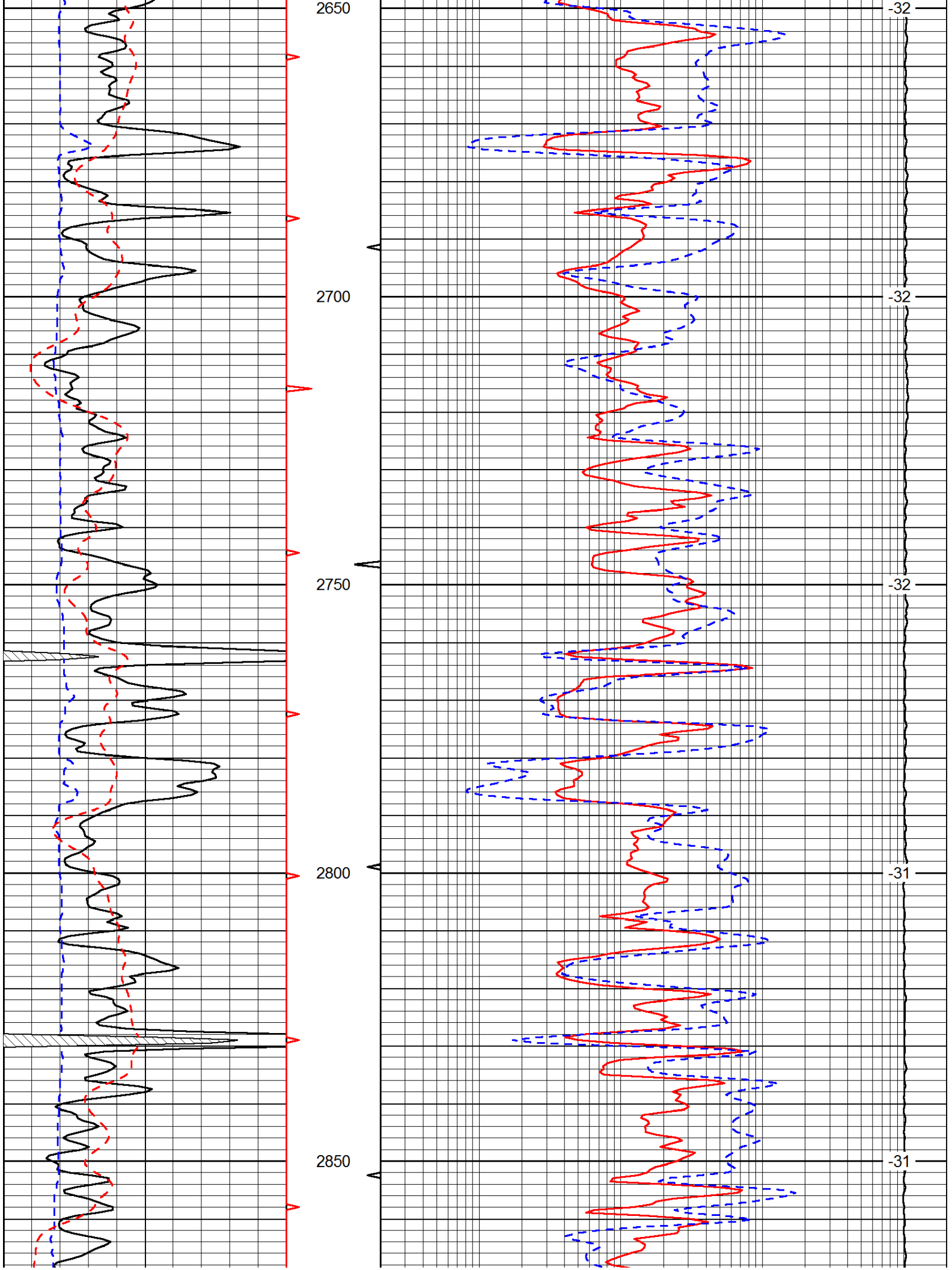
| | | | | | |
|---|---|---|---|---|---|
| 0 | Gamma Ray | 150 | 0.2 | Long Guard | 2000 |
| 6 | Caliper (GAPI) | 16 | 560 | Neuton | 2160 |
| -200 | SP (mV) | 0 | 15000 | Line Tension | 0 |

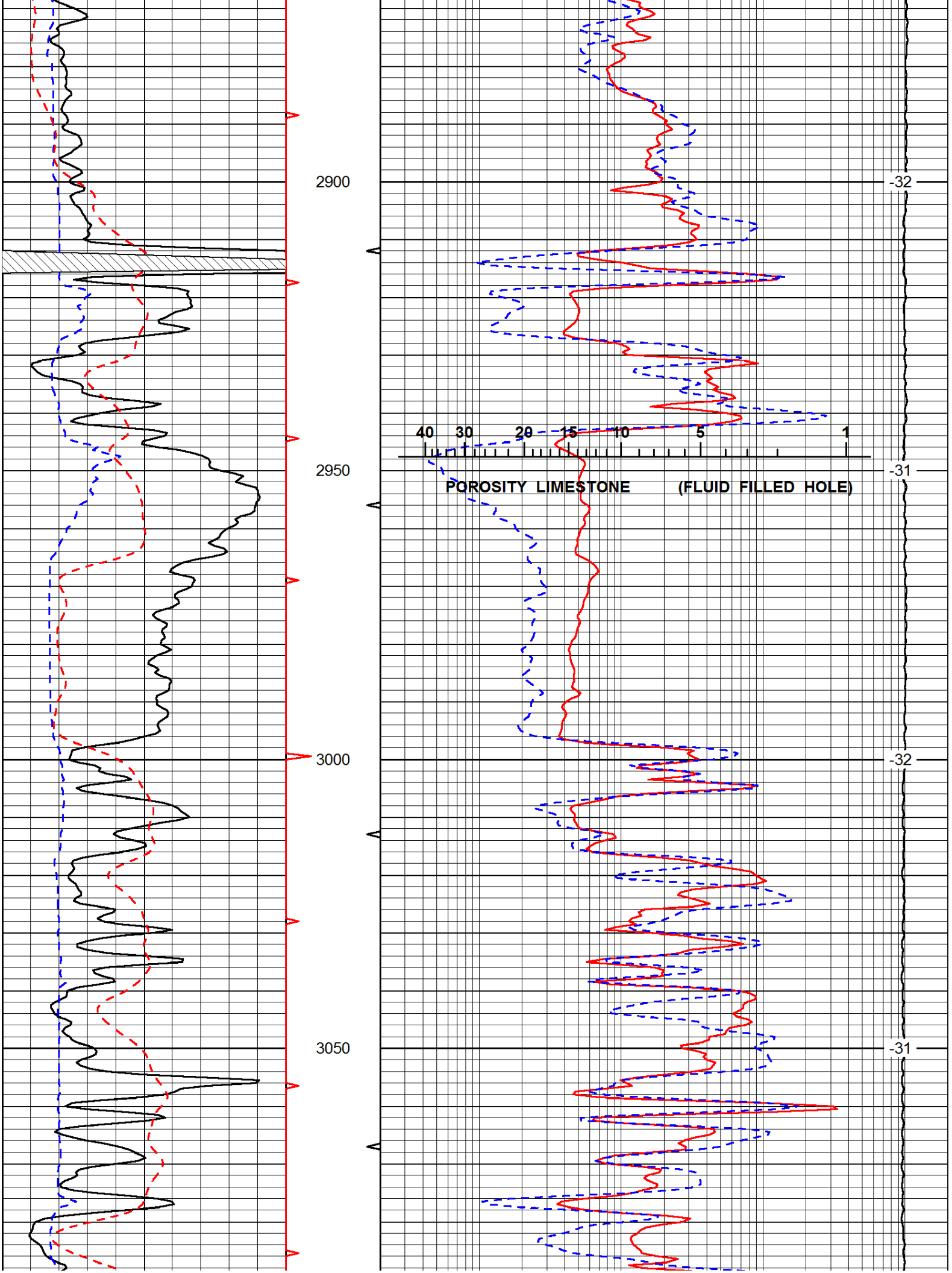
LSPD

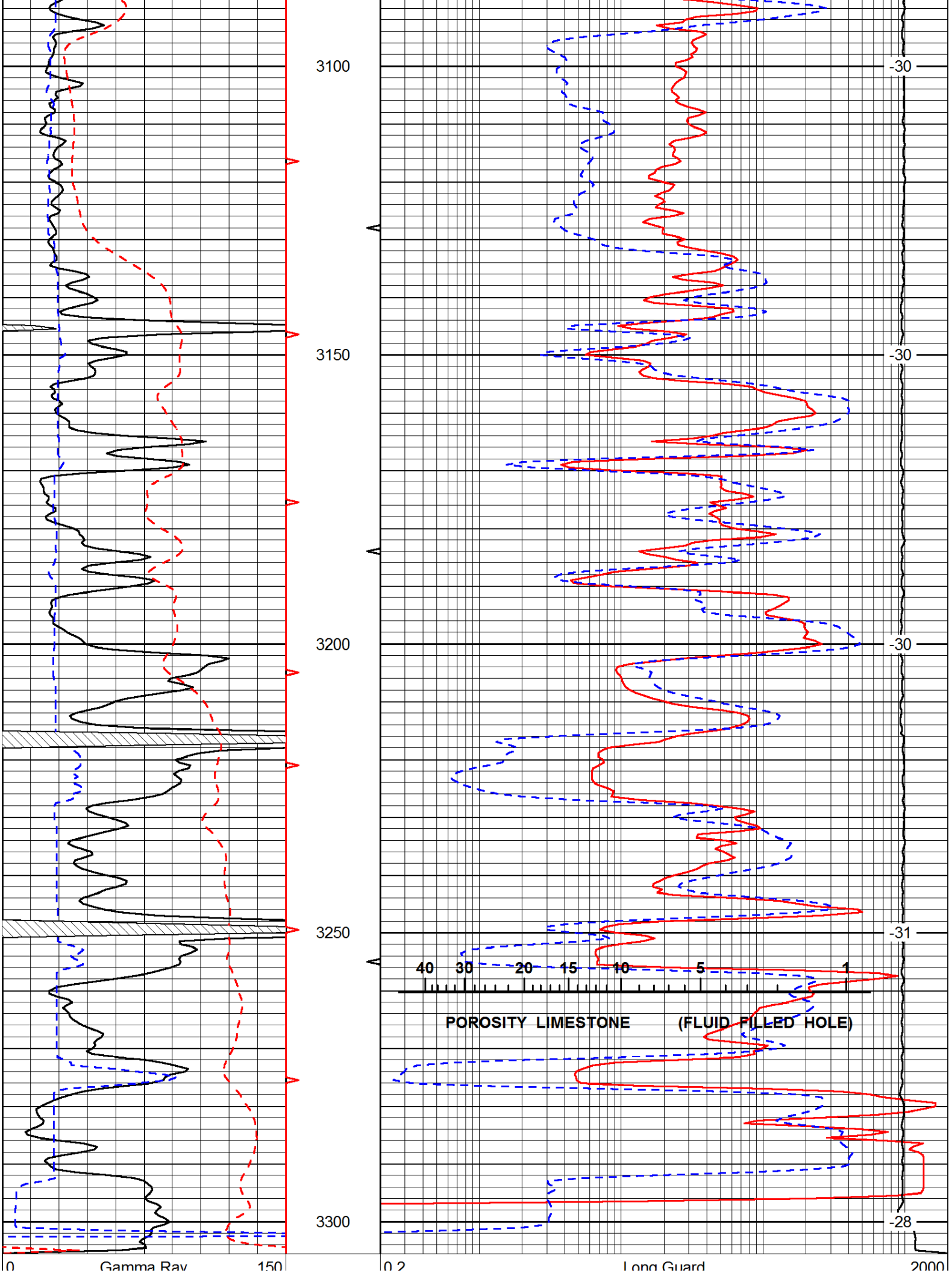



Database File: c:\warrior\data\h&d_kaufman a # 1\h&d_kaufmana_1hd.db
Dataset Pathname: rag/h&drag
Presentation Format: rag
Dataset Creation: Sat Aug 24 02:56:27 2013
Charted by: Depth in Feet scaled 1:240




2650
2700
2750
2800
2850
-32
-32
-32
-31
-31


2900
2950
3000
3050
-32
-31
-32
-31
40 30 20 15 10 5 1
POROSITY LIMESTONE (FLUID FILLED HOLE)


3100
3150
3200
3250
3300
-30
-30
-30
-31
-28
40 30 20 15 10 5 1
POROSITY LIMESTONE (FLUID FILLED HOLE)
0
Gamma Ray
150
0.2
Long Guard
2000

| | | |
|---|---|---|
| 6 | Caliper (GAPI) | 16 |
| -200 | SP (mV) | 0 |

| | | |
|---|---|---|
| 560 | Neuton | 2160 |
| 15000 | Line Tension | 0 |

LSPD