



GEOLOGIST'S REPORT

OPERATOR **MURFIN DRILLING COMPANY, INC.**

LEASE **STEELE 'A' #1-20**

LOCATION **1760 FNL & 1450 FEL**

SEC. **20** TWSP **10S** RGE **34W**

COUNTY **THOMAS** STATE **KANSAS**

FIELD **WILDCAT**

CONTRACTOR **Murfin Drilling Company** RIG NO. **8**

COMMENCED **4 April 2011** COMPLETED **17 April 2011**

MUD DISPLACED **3333** MUD TYPE **Chemical**

DRILLING TIME KEPT FROM **3800** TO **4845**

SAMPLES SAVED FROM **3800** TO **4845**

SAMPLES EXAMINED FROM **3800** TO **4845**

GEOLOGICAL SUPERVISION FROM **3699** TO **4845**

GEOLOGIST ON WELL **Paul Gunzelman**

ELEVATIONS

KB **3238 Ft.**
GL **3233 Ft.**

ALL MEASUREMENTS
FROM K.B.

CASING RECORD

Conductor **None**

Surface **8 5/8" @ 246'**

Production **5 1/2" @ 4834'**

ELECTRICAL SURVEYS:

Log-Tech, Inc.

Comp. Neutron Density

Dual Induction

Micro-resistivity

Comp. Sonic

REMARKS

API 15-193-20792-00-00

Drilling Fluids: Morgan Mud, Inc. (David Lines, engineer)

Drill Stem Testing: Trilobite Testing, Inc. (Shane McBride, tester)

Gas Trailer: No Gas Trailer

Reserve Pit Chlorides: 62,000 PPM

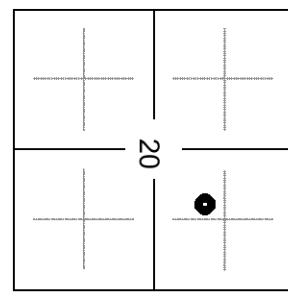
SAMPLE DESCRIPTIONS

REMARKS

DRILL TIME (MIN/FT)

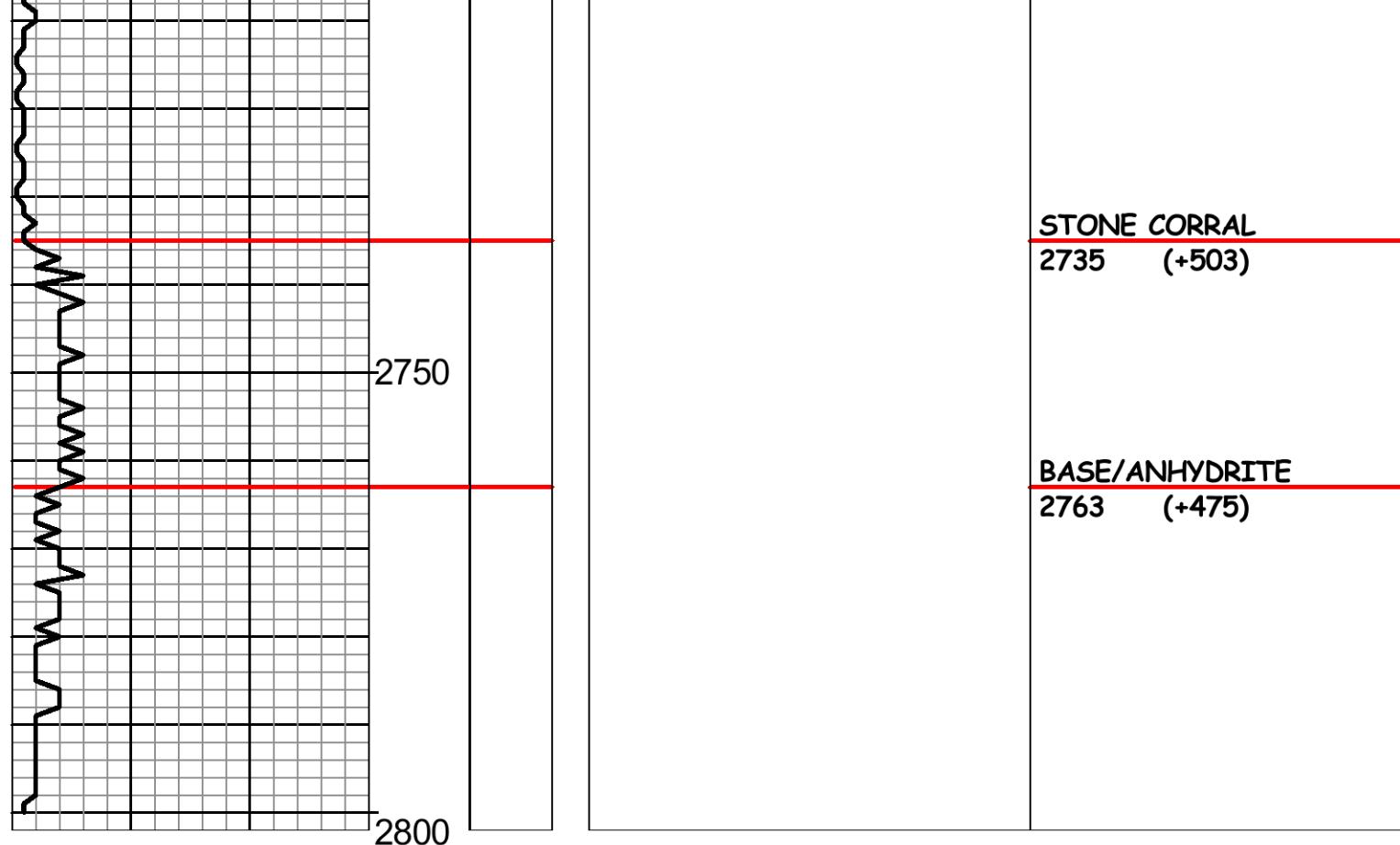
DEPTH

FORMATION NAME	TOP LOG DATUM	SAMPLE TOP DATUM
Stone Corral	2734	+504
Base/Anhydrite	2762	+464
Topeka	3896	-658
Heebner Shale	4112	-874
Lansing	4152	-914
Stark Shale	4382	-1144
Marmaton	4466	-1228
Cherokee	4651	-1413
Mississippian	4768	-1530
Total Depth	4845	-1607



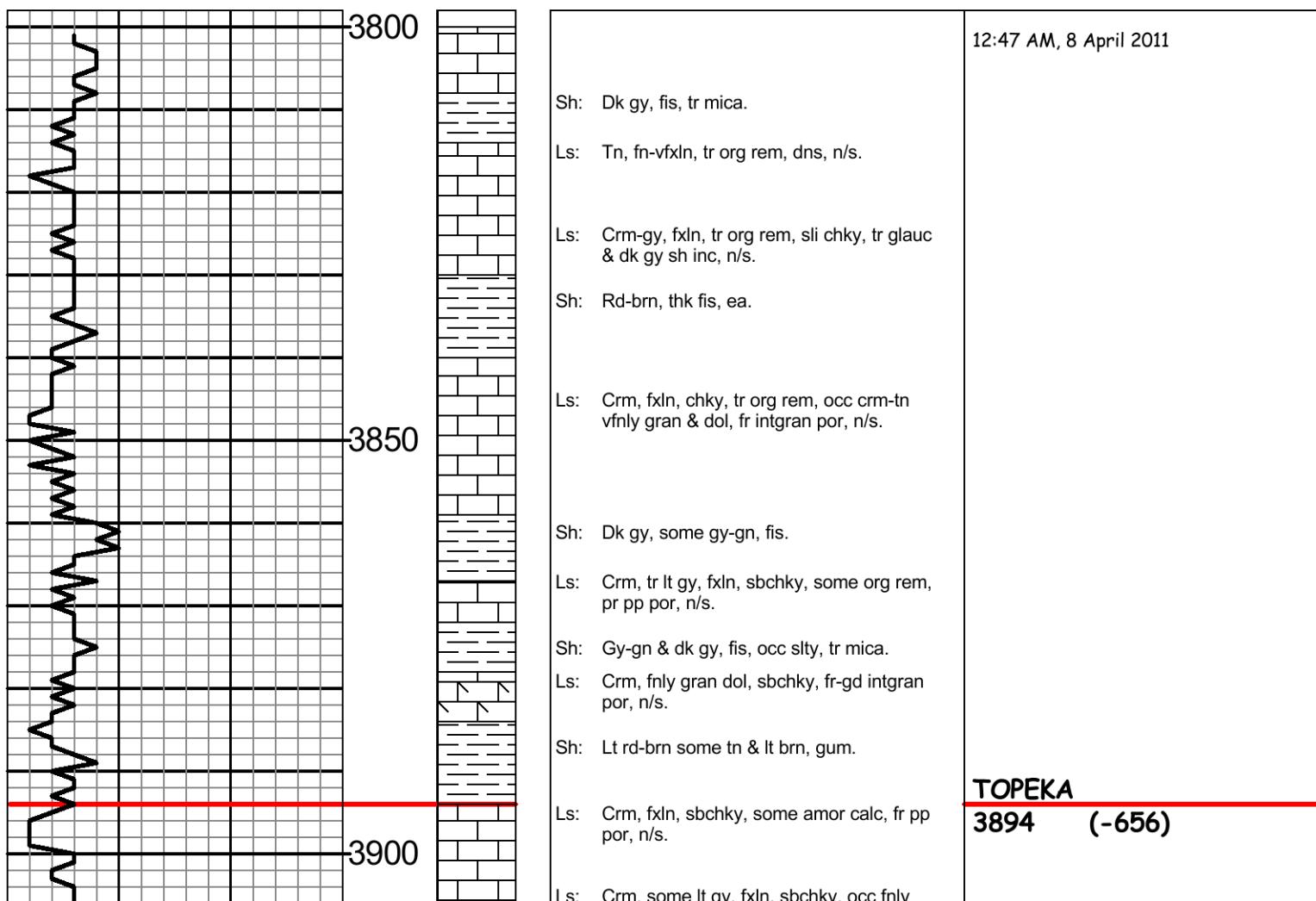
2700



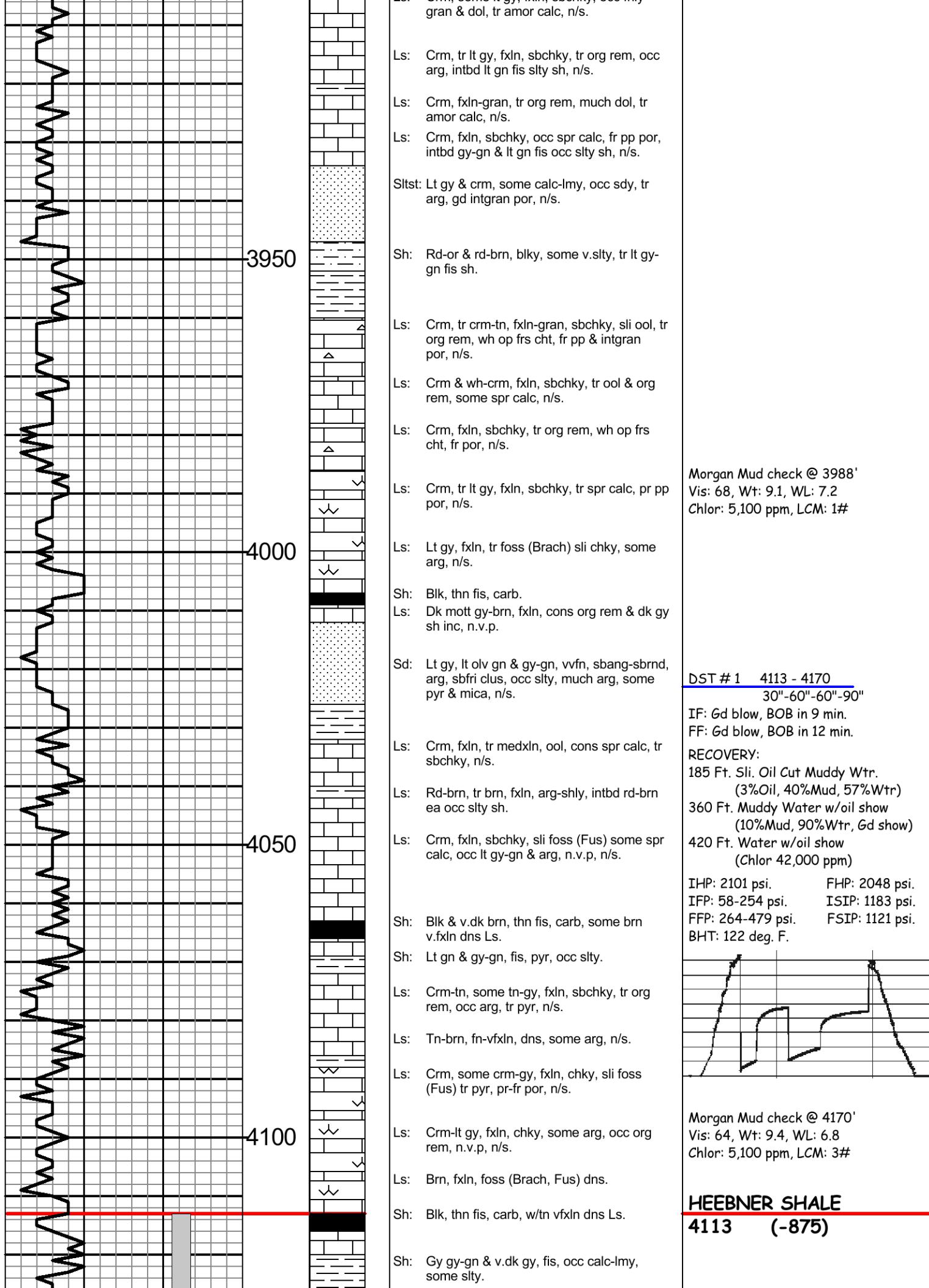


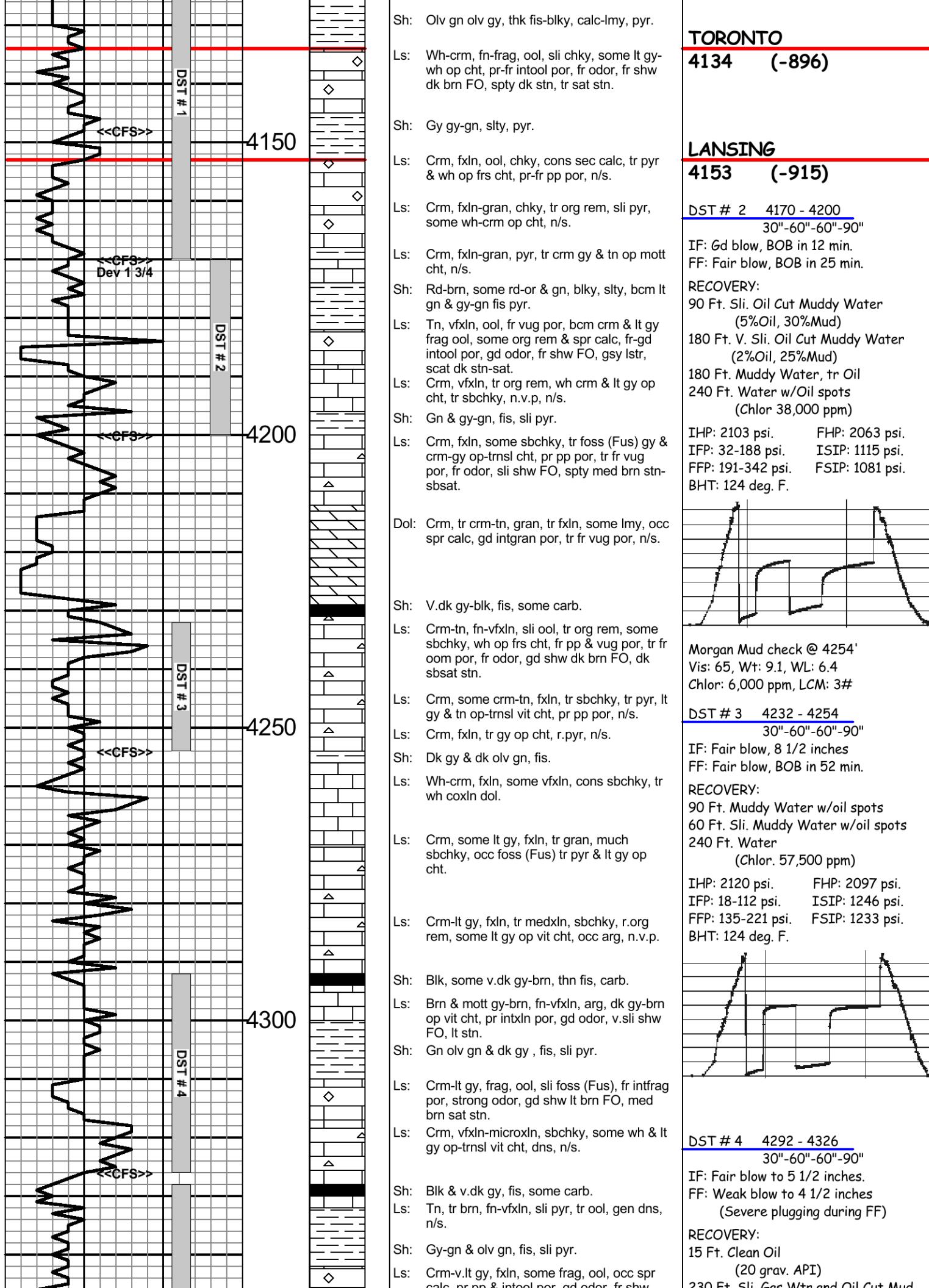
STONE CORRAL
2735 (+503)

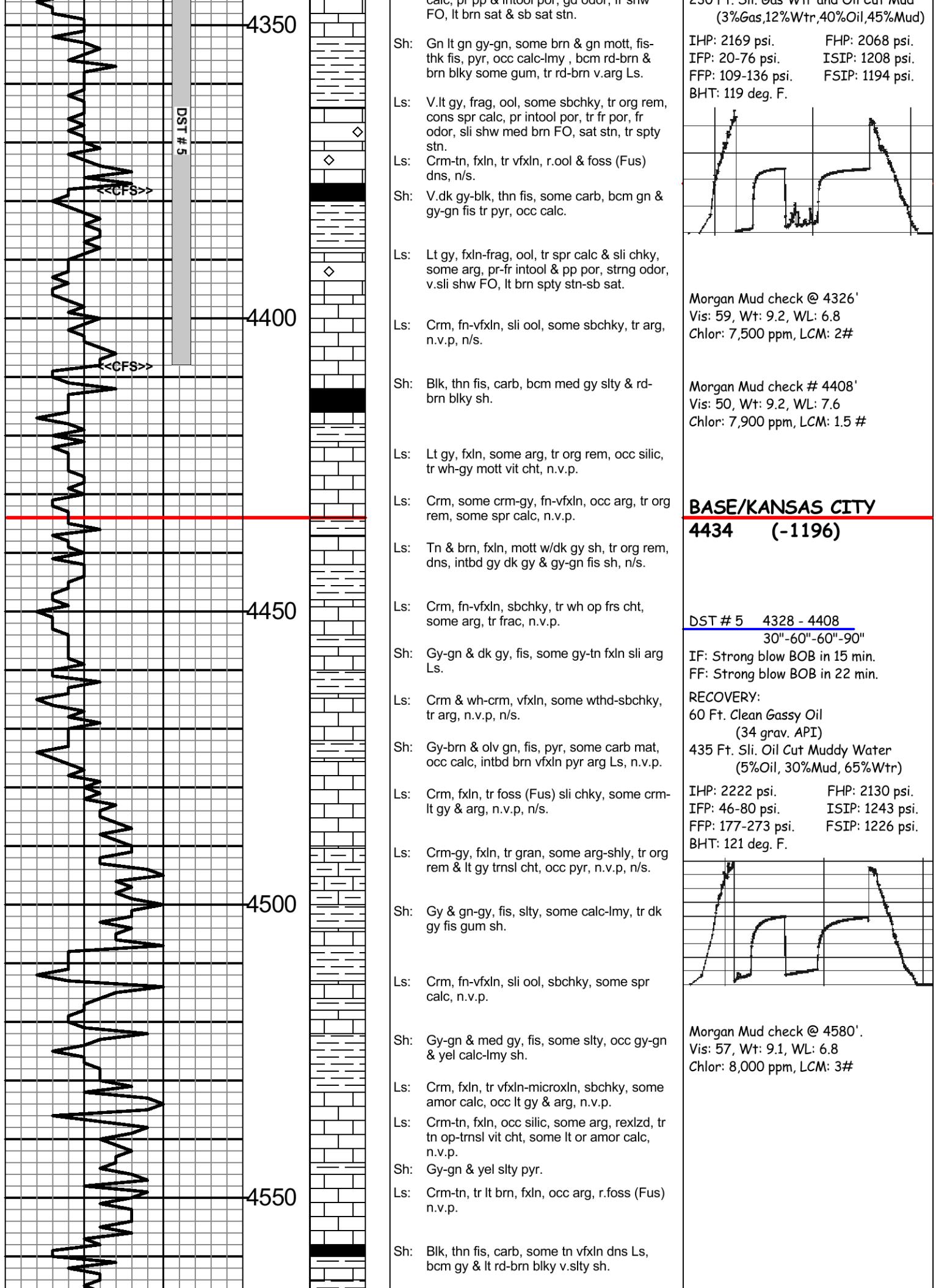
BASE/ANHYDRITE
2763 (+475)

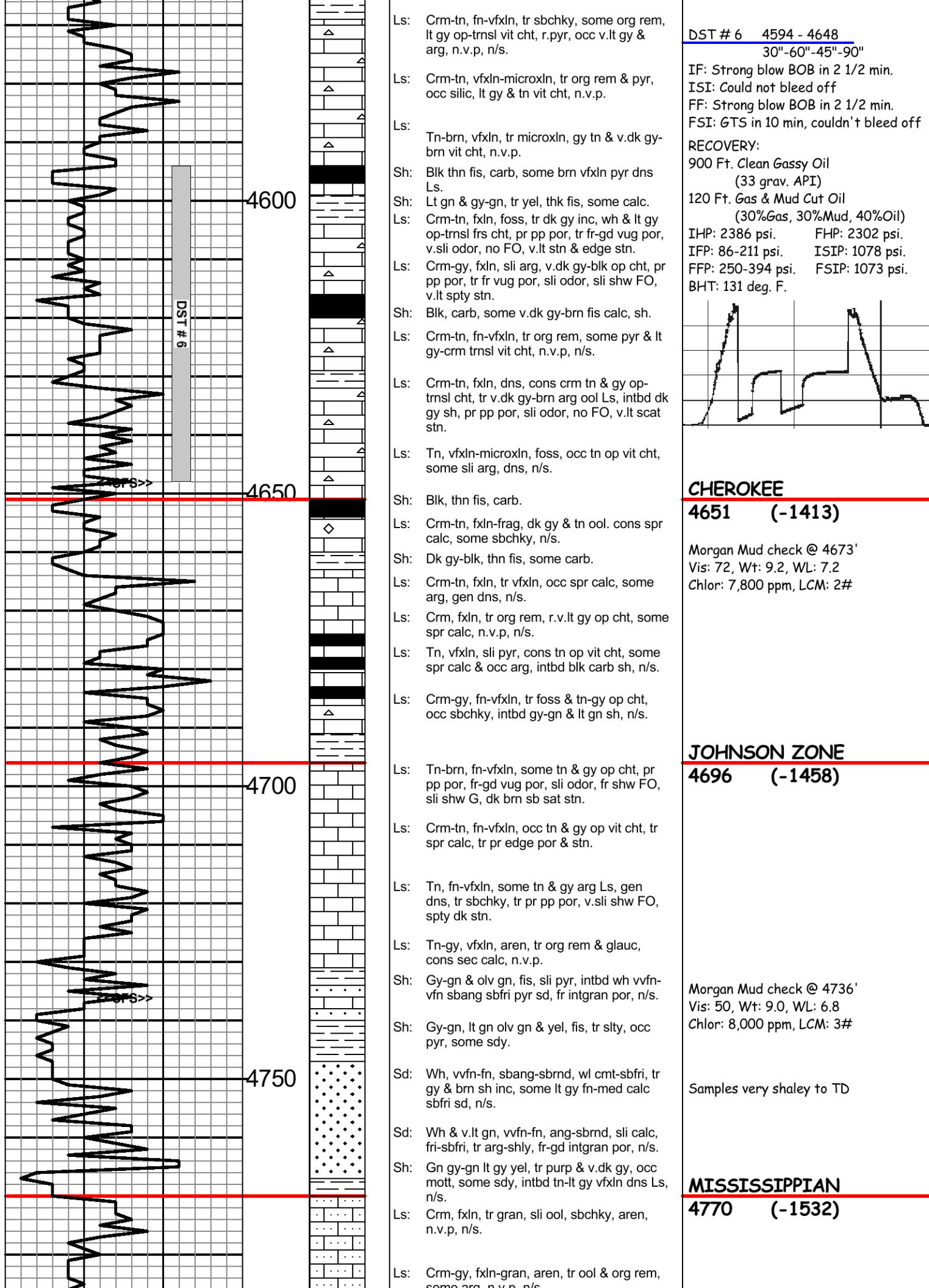


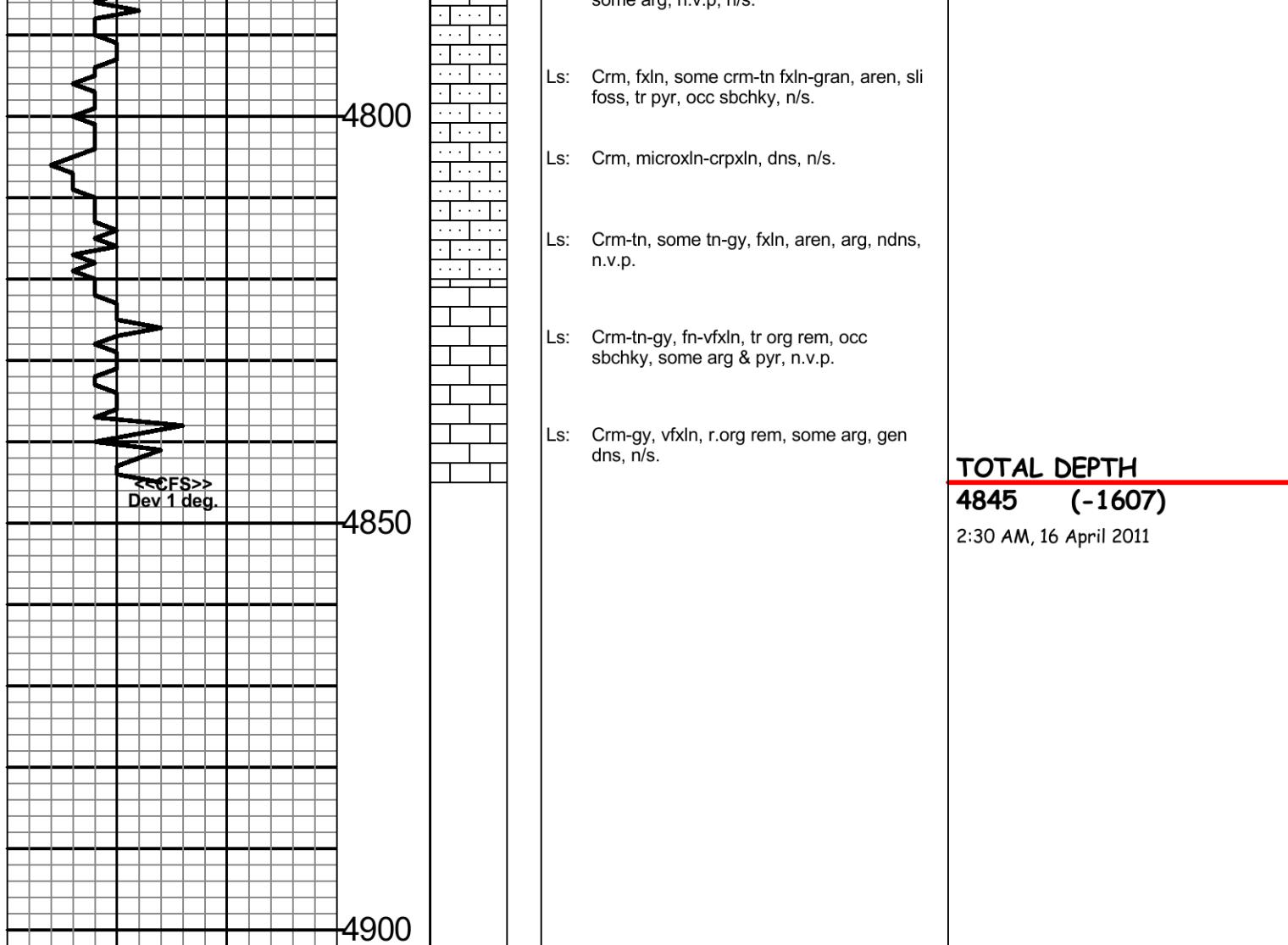
TOPEKA
3894 (-656)











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County: THOMAS State: KANSAS