



GEOLOGIST'S REPORT

OPERATOR MURFIN DRILLING COMPANY, INC.
LEASE KELLER-AUST #1-28
LOCATION 430 FNL & 880 FWL
SEC. 28 TWSP 11S RGE 20W

GL 2207 Ft.
KB 2212 Ft.

ALL MEASUREMENTS
FROM KB.

COUNTY ELLIS STATE KANSAS
FIELD CROMB SOUTH

CONTRACTOR Murfin Drilling Company RIG NO. 16
COMMENCED 24 October 2012 COMPLETED 1 Nov. 2012
MUD DISPLACED 28.29 MUD TYPE Chemical
DRILLING TIME KEPT FROM 3160 TO 3950

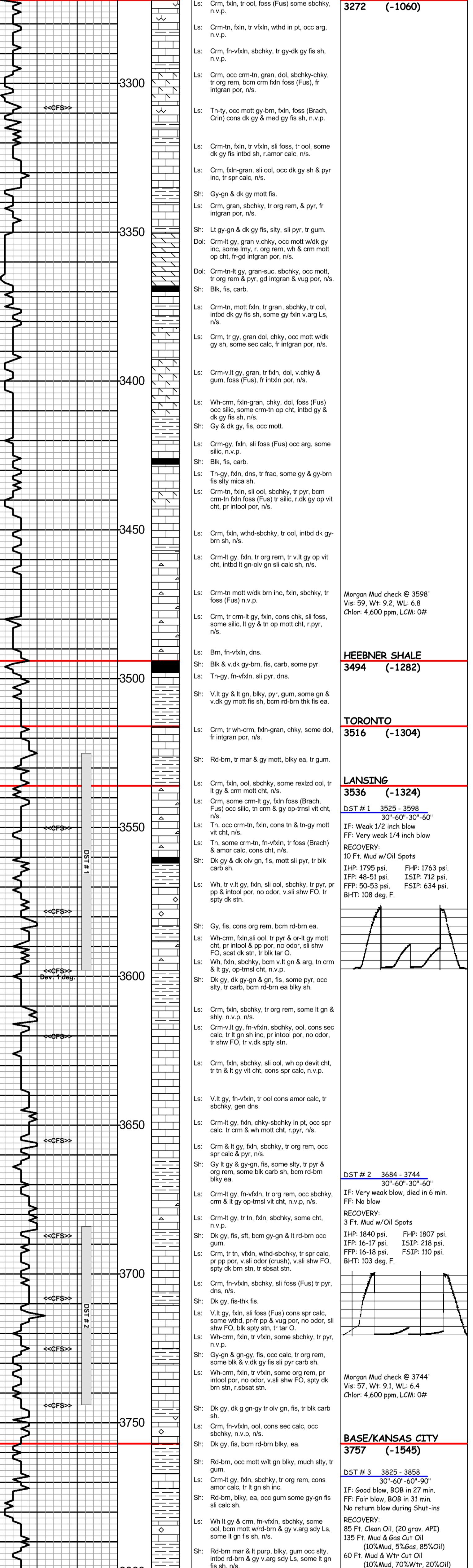
SAMPLES SAVED FROM 3160 TO 3950
SAMPLES EXAMINED FROM 3175 TO 3950
GEOLOGICAL SUPERVISION FROM 3175 TO 3950
GEODESIGNER ON WELL Paul Gunzelman

ELECTRICAL SURVEYS:
Pioneer Energy Services
Comp. Neutron Density
Dual induction
Micro-resistivity
Comp. Sonic

FORMATION NAME
TOP LOG DATUM SAMPLE TOP DATUM
Stone Coral 1643 +529 1644 +525
Topeka 3273 -1061 3272 -1060
Heebner Shale 3495 -1283 3494 -1282
Toronto 3536 -1324 3536 -1324
Base/Kansas City 3724 -1483 3725 -1484
Arbuckle 3848 -1636 3848 -1636
Total Depth 3952 -1740 3950 -1738

REMARKS
API 15-051-26414-00-00
Drilling Fluids: Morgan Mud, Inc. (David Lines, engineer)
Drill Stem Testing: Trilobite Testing, Inc. (Cody Bloedorn, tester)
Gas Trailer: No Gas Trailer
Reserve Pit Chlorides: 62,000 ppm.

DRILL TIME (MIN/FT)	DEPTH	SAMPLE DESCRIPTIONS	REMARKS
	1600		



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State: <u>KANSAS</u>
