



GEOLOGISTS REPORT

OPERATOR COBALT ENERGY, LLC
LEASE BOYD 'A' # 1-16
ELEVATIONS KB 3200 Ft.

LOCATION 406 FSL & 1669 FEL
SEC. 16 TWSP 11S RGE 34W
COUNTY LOGAN STATE KANSAS

FIELD WILDCAT
CONTRACTOR Marlin Drilling Company
COMMENCED 15 Oct 2014 COMPLETED 20 Oct 2014
MUD DISPLACED 3500 MUD TYPE Chemical
DRILLING TIME KEPT FROM 3900 TO 4815

SAMPLES SAVED FROM 3900 TO 4815
SAMPLER EXAMINED FROM 3900 TO 4815
GEOLOGICAL SUPERVISION FROM 3900 TO 4815
GEOLOGIST ON WELL Paul Gunzelman

FORMATION LOG TABLE with columns: NAME, TOP DATUM, LOG, SAMPLE DATE

ELECTRICAL SURVEYS table with columns: Formation Name, Dual Induction, Micro-resistivity

REMARKS
API 15-109-21351-00-00
Drilling Fluids: Mud-Co/Service Mud, Inc. (Reid Atkins, engineer)
Drill Stem Testing: Trilobite Testing, Inc. (Will MacLean, tester)
Gas Trailer: No Gas Trailer
Reserve Pit Chlorides: 11,000 PPM

Summary table with columns: DRILL TIME (MIN/FT), DEPTH, LITHOLOGY, SAMPLE DESCRIPTIONS, REMARKS

Main log display area containing depth scale (2650-4850), lithology column, sample descriptions, and various remarks including DST results and mud check data.