



GEOLOGIST'S REPORT

OPERATOR MURFIN DRILLING COMPANY, INC.
LEASE BECKMAN "A" #1-16
LOCATION 1903 FSL & 1340 FWL
SEC. 16 TWSP 7S RGE 29W
COUNTY SHERIDAN STATE KANSAS
FIELD WILDCAT

GL 2871 Ft.
KB 2876 Ft.

All Measurements
from K.B.
Production None

CASING RECORD
Contractor Murfin Drilling Company Rig No. 24
Commenced 1 Nov. 2013 Completed 8 Nov. 2013
Mud Displaced 3372 Mud Type Chemical
Drilling Time Kept 3670 To 4580

SAMPLES SAVED FROM 3670 To 4580

ELECTRICAL SURVEYS:
Geological Supervision from Well Paul Gunzelman
Formation Name Top Log Sample Datum
Stone Coral 2540 +336 2542 +334
Base/Anhydrite 2578 +300 2577 +299
Topka 3738 -862 3738 -862
Heebner Shale 3934 -1058 3933 -1057
Lansing 3974 -1098 3974 -1098
Base/Kansas City 4194 -1318 4194 -1318
Pawnee 4306 -1430 4302 -1426
Cherokee 4409 -1533 4408 -1532
Mississippian 4504 -1628 4506 -2630
Total Depth 4580 -1704 4580 -1704

REMARKS

API 15-179-21345-00-00
Drilling Fluids: Morgan Mud, Inc. (Cade Lines, engineer)
Drill Stem Testing: Trilobite Testing, Inc. (Kevin Mack, tester)
Gas Trailer: No Gas Trailer
Reserve Pit Chlorides: 1,800 PPM