

KIM B. SHOEMAKER

CONSULTING GEOLOGIST

316-684-9709 * WICHITA, KS

GEOLOGIST'S REPORT

DRILLING TIME AND SAMPLE LOG

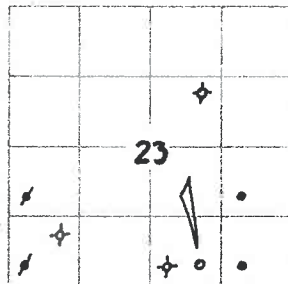
COMPANY L.D. DRILLING, INC.
 LEASE * 2 FRANK
 FIELD MAYBACH WEST
 LOCATION 1657' FEL & 343' FSL
 SEC 23 TWP 20S RGE 14W
 COUNTY BARTON STATE KANSAS
 CONTRACTOR PETROMARK DRILLING RIG 2
 SPUD 9-19-13 COMP 9-27-13
 RTD 3650 LTD 3649
 MUD UP 2873 TYPE MUD CHEMICAL

ELEVATIONS
 KB 1899
 DF _____
 GL 1894
 Measurements Are All From 1899 KB

CASING
 SURFACE 8 5/8" @ 812'
 PRODUCTION 5 1/2" @
 ELECTRICAL SURVEYS
 DUAL IND., DENS., MICRO

SAMPLES SAVED FROM 3000 TO 3650
 DRILLING TIME KEPT FROM 2700 TO 3650
 SAMPLES EXAMINED FROM 3000 TO 3650
 GEOLOGICAL SUPERVISION FROM 3150 TO 3650
 GEOLOGIST ON WELL KIM B. SHOEMAKER

FORMATION TOPS	LOG	SAMPLES
ANHYDRITE	801 + 1098	797 + 1102
TOPEKA	2807 - 908	2809 - 910
HEEBNER	3152 - 1253	3154 - 1255
BROWN LIME	3257 - 1358	3259 - 1360
LANSING	3268 - 1369	3268 - 1369
B/KC	3493 - 1594	3490 - 1591
ARBUCKLE	3524 - 1625	3529 - 1630



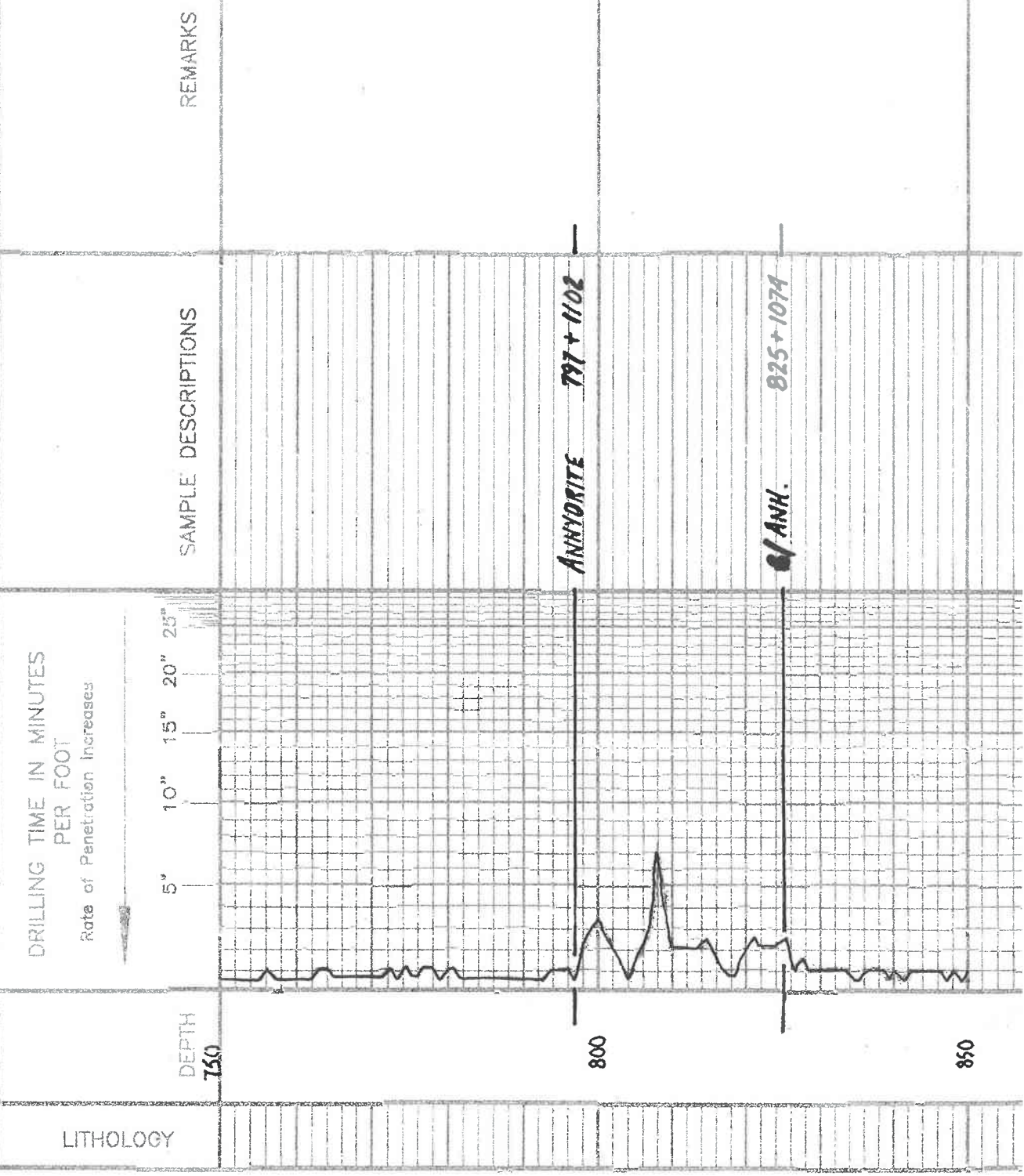
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REMARKS
 9-19-13 SPUD
 9-20 @ 817'
 9-21 @ 1740'
 9-22 @ 2810'
 9-23 @ 3345'
 9-24 @ 3405'
 9-25 @ 3455'
 9-26 @ 3550'
 9-27 @ 3650'

LEGEND

- Anhydrite
- Salt
- Sandstone
- Shale
- Carb sh
- Limestone
- Coal Lime
- Chert
- Dolomite

SHOE01-06



2700

2800

2900

✓ Top Log

TOPEKA

2808-909

Samples are Lagged

Sh. Dk. Blk.

15. 2. 1959. VSI. 688.

