

KIM B. SHOEMAKER

CONSULTING GEOLOGIST

316-884-9709 * WICHITA, KS

GEOLOGIST'S REPORT

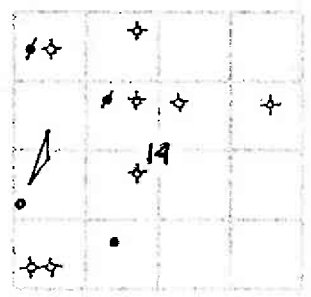
DRILLING TIME AND SAMPLE LOG

COMPANY L. D. DRILLING, INC.
 LEASE #1-14 SKOLAUT-MAULER
 FIELD LAUD
 LOCATION 1585' FSL & 130' FWL
 SEC 14 TWP 18s RGE 14w
 COUNTY BARTON STATE KANSAS
 CONTRACTOR L. D. DRILLING, INC.
 SPUD 3-15-16 COMP 3-23-16
 ATO 3520 LTD 3520
 MUD WT 2706 TYPE MUD CHEMICAL

ELEVATIONS
 KB 1914
 DE
 CL 1909
 Measurements Are All
 From 1914 KB
 CASING
 SURFACE 8 5/8" @ 855'
 PRODUCTION 5 1/2" @
 ELECTRICAL SURVEYS
 DUAL IND., DENS-N. MICRO,
 SONIC

SAMPLES SAVED FROM 2800 TO 3520
 DRILLING TIME KEPT FROM 2700 TO 3520
 SAMPLES EXAMINED FROM 2800 TO 3520
 GEOLOGICAL SUPERVISION FROM 3100 TO 3520
 GEOLOGIST ON WELL KIM B. SHOEMAKER

FORMATION TOPS	LOG	SAMPLES
ANHYDRITE	858 + 1056	852 + 1062
B/ANH.	878 + 1036	874 + 1040
TOPEKA	2849 - 935	2847 - 933
HEEBNER	3086 - 1172	3084 - 1170
BROWN LIME	3160 - 1246	3158 - 1244
LANSING	3167 - 1255	3166 - 1254
B/KC	3366 - 1452	3372 - 1458
ARBUCKLE	3408 - 1494	3405 - 1491

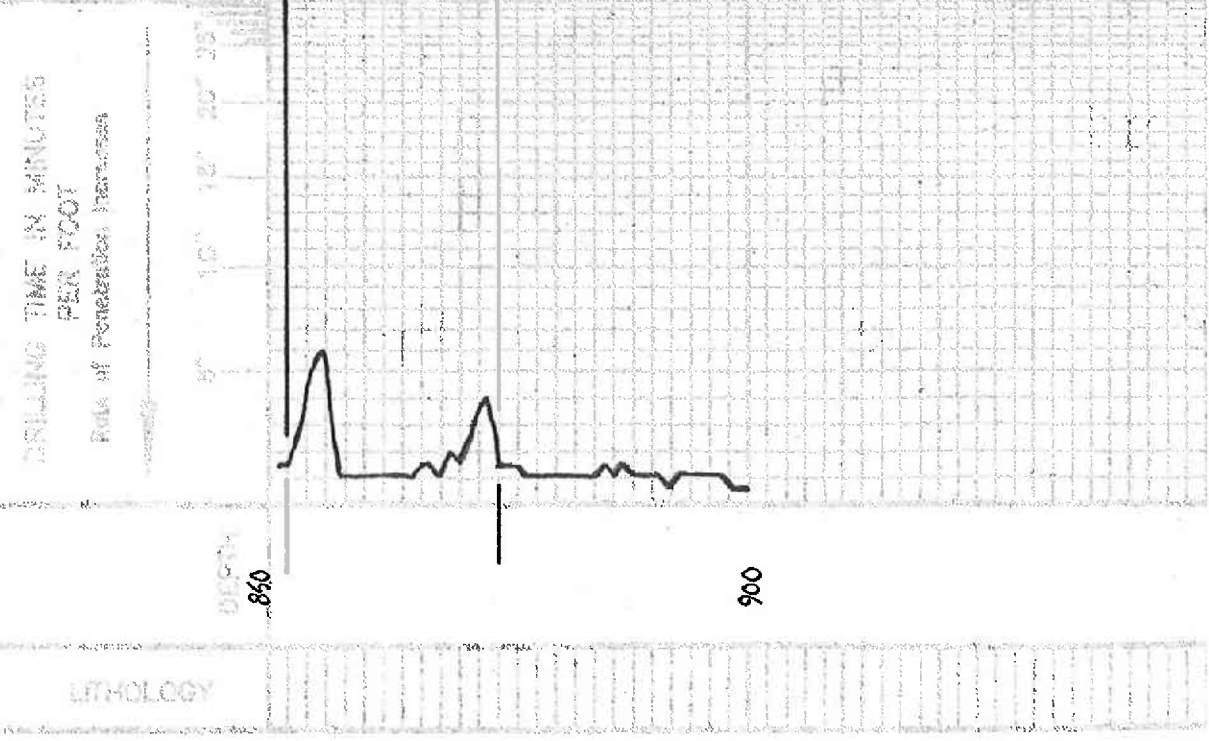


API: 15-009-26141

3-15-16 SPUD
 3-16 @ 759'
 3-17 @ 856'
 3-18 @ 2084'
 3-19 @ 2911'
 3-20 @ 3235'
 3-21 @ 3365'
 3-22 @ 3414'
 3-23 @ 3520'

LEGEND

- Anhydrite
- Soil
- Sandstone
- Shale
- Carb sh
- Unsatstone
- Col. Lime
- Chert
- Dolomite



SAMPLE DESCRIPTIONS

ANHYDRITE 852+1062

B/ANH. 874+1040

LITHOLOGY

2700

2800

2900

3000

Samples are bagged

Sh. Clay Silty

65-74-11-12 Sh. Foss. Sil. A

65-11-12 Sh. Foss. Sil. Clay

Sh. Clay

TOPEKA 2897-933

65-11-12 Sh. Foss. Sil. Clay

65-7-11-12-13-14 Foss

65-11-12-13-14 Foss. Clastic

65-11-12 Sh. Silty Clay

65-12-13-14

Sh. Clay

65-11-12-13-14 Sh. Foss.

Sh. Clay

65-7-11-12 Sh. Foss.

Sh. Clay

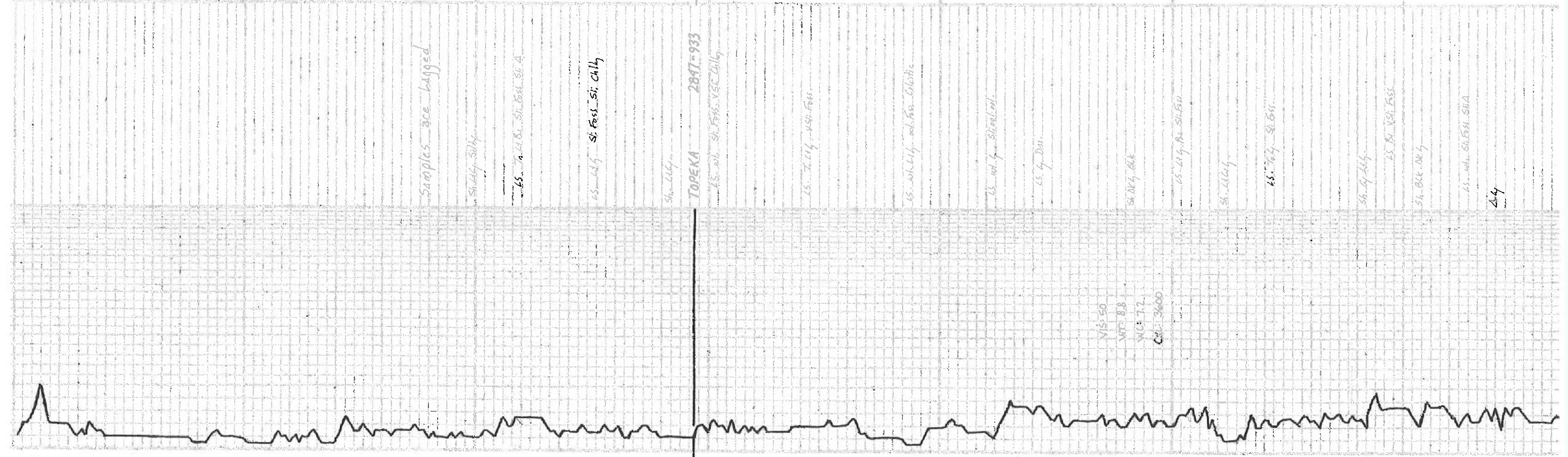
65-11-12-13-14 Foss.

65-11-12-13-14

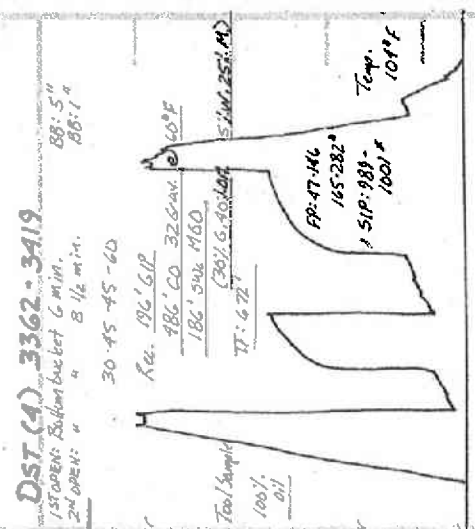
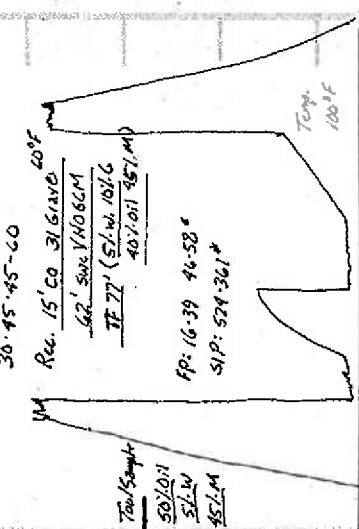
65-11-12 Sh. Foss. Sil. A

44

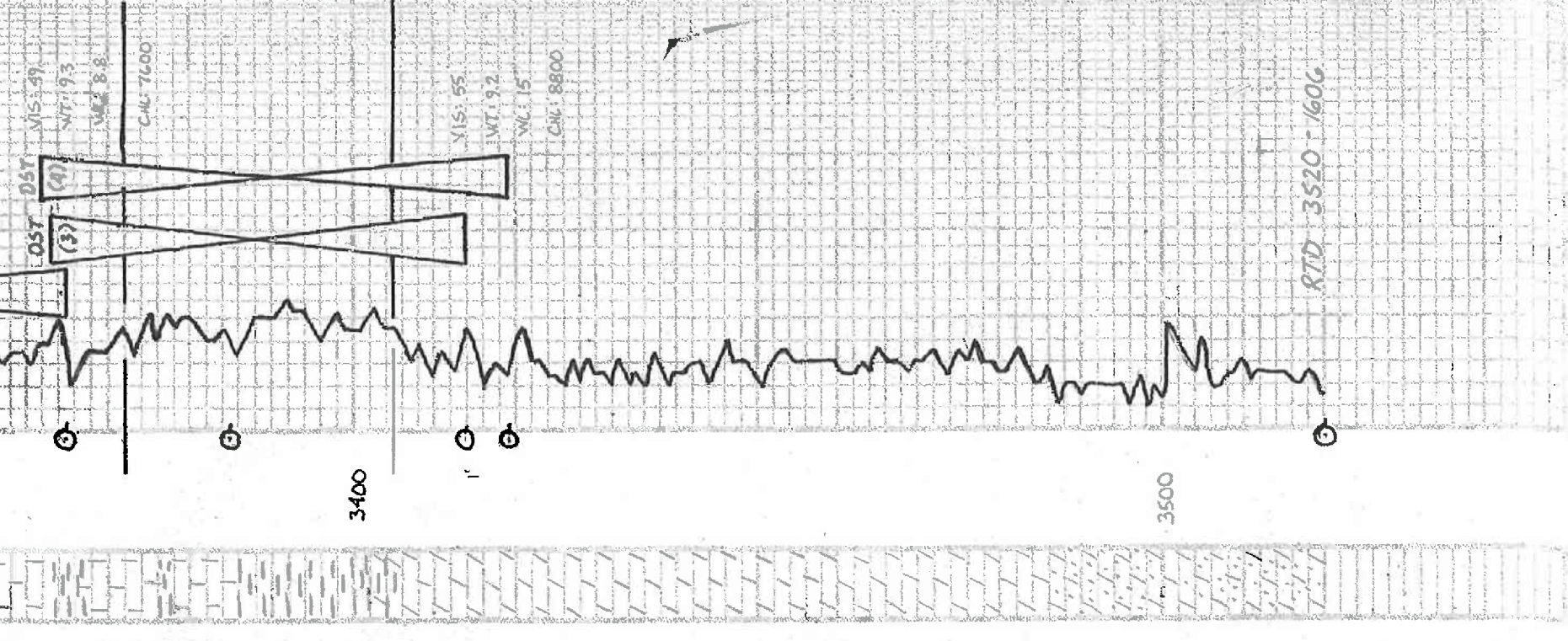
Vis: 50
WTC: 88
WLA: 7.2
CGL: 3600



65-11-12-13-14 Foss. Clastic
65-11-12 Sh. Silty Clay
65-11-12 Sh. Foss. Sil. Clay
65-7-11-12-13-14 Foss
65-11-12-13-14 Foss. Clastic
65-11-12 Sh. Silty Clay
65-12-13-14
Sh. Clay
65-11-12-13-14 Sh. Foss.
Sh. Clay
65-7-11-12 Sh. Foss.
Sh. Clay
65-11-12-13-14 Foss.
65-11-12-13-14
65-11-12 Sh. Foss. Sil. A
44



DST (4) 3362-3419
 1ST OPEN: Sullivan bucket C min.
 2nd OPEN: " " 8 1/2 min.
 30-45-45-60
 Rec. 196' GIP
 186' CO 328-ND
 186' SURV M60
 IT 77' (57' W. 101' G
 40' 101' 85' M)
 Top Sample
 100' oil



ES. 7.41.61. VSI. 101. S. 14.
 S. R.
B/KC
 3372-1458
 3395-1491
ARBUCKLE
 3520-1606
RTD