

RITCHIE EXPLORATION, INC.
BLDG 700 8-100 E. 22nd St. NORTH
WICHITA, KANSAS
(672-278)

DATE DEPTH NO. SIZE MAKE TYPE DEPTH OUT FEET HOURS

GEOLOGIST'S REPORT

DRILLING TIME AND SAMPLE LOG

OPERATOR RITCHIE EXPLORATION, INC.
LEASE MONTGOMERY #3 TWIN

FIELD 405' FSL
LOCATION 900' NW 1/4 SEC. 5 TWP. B S RGE. 2 SW

SEC. 5 Twp. B S Range 2 SW
COUNTY GRAHAM STATE KANSAS

ELEVATIONS
KB 2262
DF —
GL 2257

MEASUREMENTS ARE ALL
FROM KB

CASING RECORD
SURFACE 8 1/2 @ 217'
WT.50.5 ST.15.5 P.0

PRODUCTION 5 1/2" 15.5# P. 0
WT.50.5 ST.15.5 P.0

DRILLING TIME KEPT FROM 3782 TO RTD
SAMPLES SAVED FROM 3782 TO RTD

GEOLOGICAL SUPERVISION FROM 3782 TO RTD
MUD UP SH TYPE MUD CHEMICAL

WELL SITE GEOLOGIST PETER J. FERGUSON
FORMATION TOP DATUM TO DATUM COMP.

ANN DRATE 1902 +340 1903 +359 +6
BASE / Anhydrite 1934 +320 1935 +321 +6
TOPKA 3264 -1022 3264 -1022 +5

LEEBNER 3416 -1214 3476 -1214 +3
TORONTO 3500 -1258 3500 -1258 +4
MUNICE Sh. 3625 -1353 3625 -1353 +4
BASE / Anhydrite 3723 -1404 3722 -1404 +2

Total Depth 3782 -1510 3782 -1510

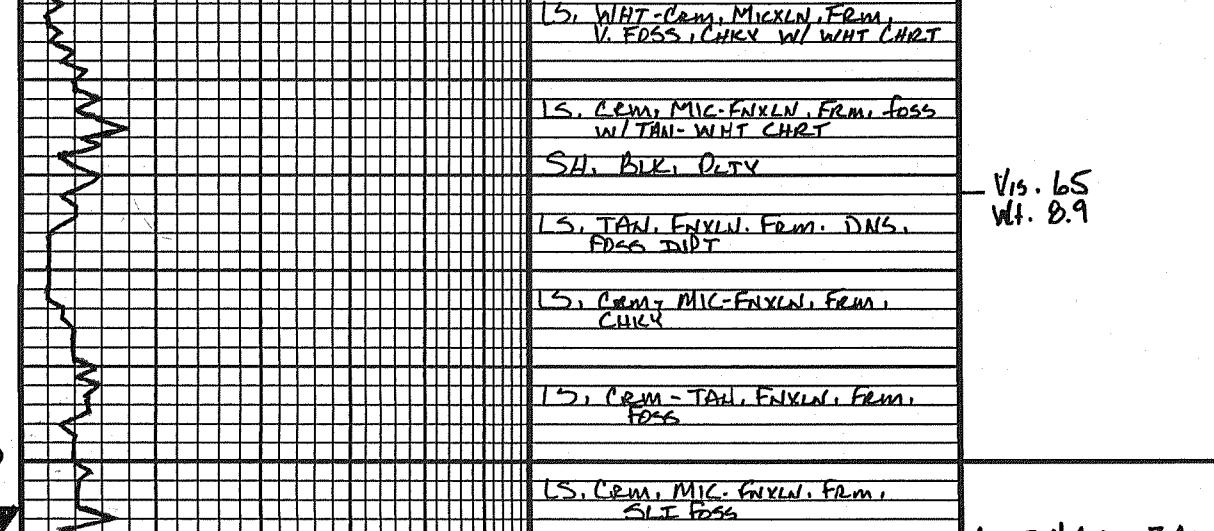
API # 15-D-24004

REFERENCE WELL FOR STRUCTURAL COMPARISON
#3 MONTGOMERY SE SW SW SE SW - 2 SW

| No. | INTERVAL | DRILL STEM TESTS | RECOVERY |
|-----|-----------|---|--------------------------------------|
| 1 | 3405-3460 | 335-3460 1107-3460 1107-45 1107-60 | 1638' MW 700' MW (25.7'W, 75.1'W) |

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LEGEND



Anhydrite Salt Sandstone Shale Carb sh Limestone Ool.Lime Chert Dolomite

DRILLING TIME IN MINUTES PER FOOT
Rate of Penetration Increases

5" 10" 15" 20" 25"

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