

WellSight Systems
Scale 1:240 (5"=100') Imperial
Measured Depth Log

Well Name: #1 J. BIERMANN
Location: sec 29 - twp 17S - rge 35W WICHITA COUNTY
Licenses: AP# 20,202,646 Region: KANSAS
Spud Date: 13 MAY 2014 Drilling Completed: 23 MAY 2014
Surface Coordinates: 94° 0' FSL & 1,790' FWL
50° S & 140° W of NW - SE - SW
Bottom Hole Coordinates: 1.25 degrees @ 262
Ground Elevation (ft): 3,214 K.B. Elevation (ft): 4,965
Logged Interval (ft): 311.0 To: 4,965 Total Depth (ft): 4,965
Formation: WARANSUEE TO MISSISSIPPIAN
Type of Drilling Fluid: CHEMICAL: DISPLACE @ 3,400
Printed by WellSight Log Viewer from WellSight Systems 1-800-447-1534 www.WellSight.com

OPERATOR

Company: Ritchie Exploration, Inc. license # 4767
Address: P.O. Box 783188
Wichita, Kansas 67278-3188

GEOLOGIST

Name: Ted Jochems, Jr.
Company: Consulting Geologist
Address: 212 North Market st 517
Wichita, Kansas 67202

COMMENTS

CONTRACTOR: WW Drilling, fig #2 (toolpusher Lonnie Lang)
MUD: Mud-Co (Terry Ison, Tony Maestas)
DRILL STEM TESTS: Tribolite Testing (Shane McBride)
ELECTRIC LOGS: Nabors Services (Jason Cappellucci)
(CDL/CNL, DIL)

Due to the overpressured zone it was deemed unsafe to test shows in the Lansing and upper Kansas City groups as they were drilled. The trundle test was run to evaluate the LKC H zone, which gave the best response on the electric logs. Due to negative results on that test, Ritchie elected not to risk further tests. The hole was plugged.

DRILL STEM TEST #1

4,231 - 4,263 30 - 45 - 45 - 60 LKC H zone
COMMENT: straddle test at TD: 32' anchor, 702' tail.
ISP: no return
FSIP: BOB / 18 min
FSIP: no return
REC: 1' FO (100% O)
69' SOCM (3% O, trace SW, 97% DM)
120' MCW w/ oil spots
420' MCW (100% W)
610' total fluids
Rw: 0.278 cfmms @ 65 degrees F
CHLORIDES: 27,000 ppm recovery (5,000 ppm system)
FP: 30 - 145# / 1,130#
SIP: 1,144 - 1,130#
HP: 2:32 - 2:231#
BHT: 112 degrees F
COMMENT: shut-in curves suggest very good permeability.

DAILY PENETRATION

| DATE | DEPTH | SPUD |
|-------------|-------|------------|
| 13 MAY 2014 | 890 | 0700 hours |
| 14 MAY | 2,769 | " |
| 15 MAY | 3,202 | " |
| 16 MAY | 3,892 | " |
| 17 MAY | 4,110 | " |
| 18 MAY | 4,135 | " |
| 19 MAY | 4,368 | " |
| 20 MAY | 4,461 | " |
| 21 MAY | 4,634 | " |
| 22 MAY | 4,798 | " |
| 23 MAY | 4,965 | " |

MUD RECORD

displace @ 3,400

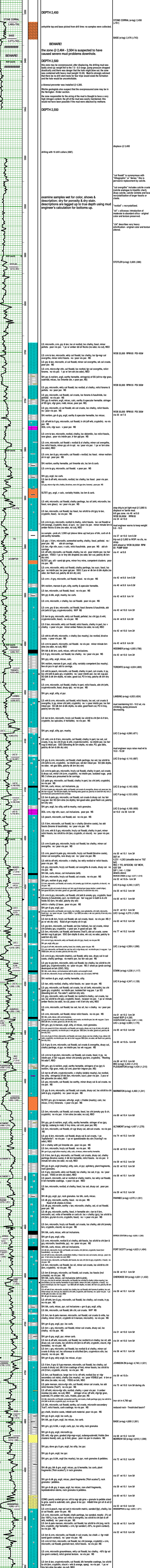
| RPT | DEPTH | WT | VIS | FL | pH | PV | YP | GELS | CHLOR | SOLIDS | BTMS UP (min) |
|-----|-------|------|-----|------|------|----|----|-------|--------|--------|---------------|
| 2 | 2,727 | 9.4 | 30 | 8.8 | 7.0 | 24 | 26 | 26.80 | 38,000 | 5.6% | 25 |
| 3 | 3,545 | 7.8 | 70 | 8.8 | 11.0 | 14 | 18 | 12.34 | 1,200 | 10.5% | 33 |
| 3+ | 3,860 | 9.8 | 46 | 14.0 | 10.5 | 14 | 18 | 12.34 | 1,200 | 10.5% | - |
| 4 | 3,890 | 9.7 | 44 | 10.8 | 10.5 | 14 | 18 | 22.52 | 2,200 | 9.8% | 36 |
| 5 | 4,110 | 9.8 | 58 | 8.6 | 10.5 | 15 | 25 | 30.68 | 5,000 | 10.3% | 38 |
| 5+ | 4,191 | 10.1 | 52 | 9.6 | 10.5 | 20 | 24 | 30.52 | 5,000 | 12.5% | - |
| 6 | 4,338 | 10.2 | 59 | 8.0 | 10.5 | 23 | 27 | 24.66 | 3,500 | 13.4% | 41 |
| 7 | 4,486 | 10.3 | 80 | 10.0 | 11.0 | 22 | 25 | 19.65 | 5,000 | 13.9% | 41 |
| 8 | 4,635 | 10.2 | 60 | 8.8 | 10.0 | 18 | 22 | 15.46 | 4,800 | 13.1% | 43 |
| 9 | 4,815 | 10.2 | 68 | 8.8 | 10.5 | 19 | 23 | 15.48 | 5,000 | 13.2% | 44 |
| 10 | 4,965 | 10.2 | 79 | 9.6 | 10.0 | 21 | 24 | 17.60 | 5,000 | 15.2% | 45 |

ROCK TYPES

Legend for rock types: Anhy, Brec, Cht, Cht, Cylst, Coal, Congl, Dol, Gyp, Lmst, Meta, Mrlst, Salt, Shale, Shcol, Shst, Shst, Sil, Tll

OTHER SYMBOLS

Legend for other symbols: OIL LKC, Even, Spotted, Ques, Dead Gas, INTERVAL, Core, Dst, EVENT, Conn, Rft, Sidewall



RTD 4,965

LTD 4,965

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#1 J. Biemann
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