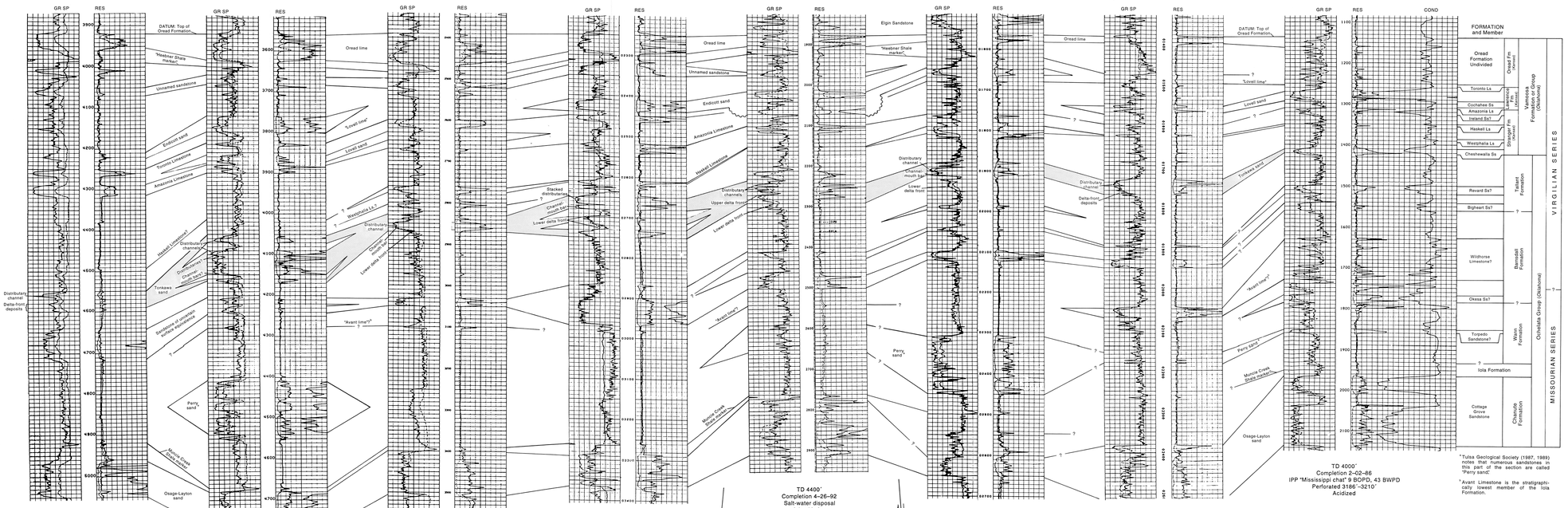
A *West* — *A´* *East*

1 Exok Inc. 1Carrier E2 SE 18, 24N–7W KB 1214´
~17 miles
2 Zinke & Trumbo 1–4 Zaloudek SW NE 4, 23N–5W KB 1127´
~16.5 miles
3 Pepin Oil Co./Duncan Energy Co. 3 T. A. SE NE SW 16, 23N–2W KB 985´ Billings Field
~10.5 miles
4 Sandstone Resources, Inc. 1Totusek C SW NW NE 4, 24N–1W KB 1014´ Tonkawa Field
~16.5 miles
5 Hewitt Energy Group 13 Schmitt HEG NW SW NE 31, 27N–2E KB 1053´ Blackwell–Newkirk Gas Area
~13 miles
6 Great Southwestern Expl., Inc./ Seville Drilling Co. 2–C Lookout E2 E2 SW 1, 25N–3E GL 990´ Hardy Field
~8 miles
7 Bar L Oil Corp. 2 Bar "L" N2 NE NW 17, 24N–4E KB 886´
~7.5 miles
8 Pelto Oil Co. 1 Royster SW NW NW 33, 24N–5E DF 935´



TD 5600´
Completion 11–16–84 (D&A)
Perforated Oswego 5529´–5537´
5474´–5494´
Acidized

TD 6500´
Completion 6–19–84 (D&A)
No cores or tests

TD 5950´
Completion 6–11–90
IPP Wilcox 49 BOPD, 80 MCFGPD
and 1000 BWPD
Perforated 4456´–4470´
and 4484´–4498´
Completion 4–19–93 (OWWO)
IPP Tonkawa 10 BOPD, 15 MCFGPD
and 490 BWPD
Perforated 2846´–2864´
Treatment not reported
Perforated Elgin 2293´–2303´
Test results not reported

TD 4456´
Completion 8–05–83
IPF 37 BOPD, 172 MCFGPD
Commingled "Mississippi chat" and Mississippi lime
Perforated Mississippi lime 4243´–4256´
Perforated "Mississippi chat" 4221´–4237´
Acidized

TD 4400´
Completion 4–26–92
Salt-water disposal
Arbuckle Ls.
Interval not reported

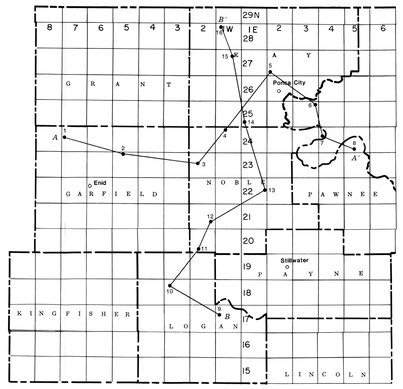
TD 3545´
Completion 10–05–84
IPP 15 BOPD, 200 MCFGPD,
50 BWPD
"Mississippi chat"
Perforated 3496´–3504´
Acidized and fractured

TD 3427´
Completion 4–15–85
IPP Cleveland 33 BOPD, 70 MCFGPD,
78 BWPD
Perforated 2844´–2920´ (gross)
Acidized and fractured

TD 4000´
Completion 2–02–86
IPP "Mississippi chat" 9 BOPD, 43 BWPD
Perforated 3186´–3210´
Acidized

*Tulsa Geological Society (1987, 1989) notes that numerous sandstones in this part of the section are called "Perry sand."

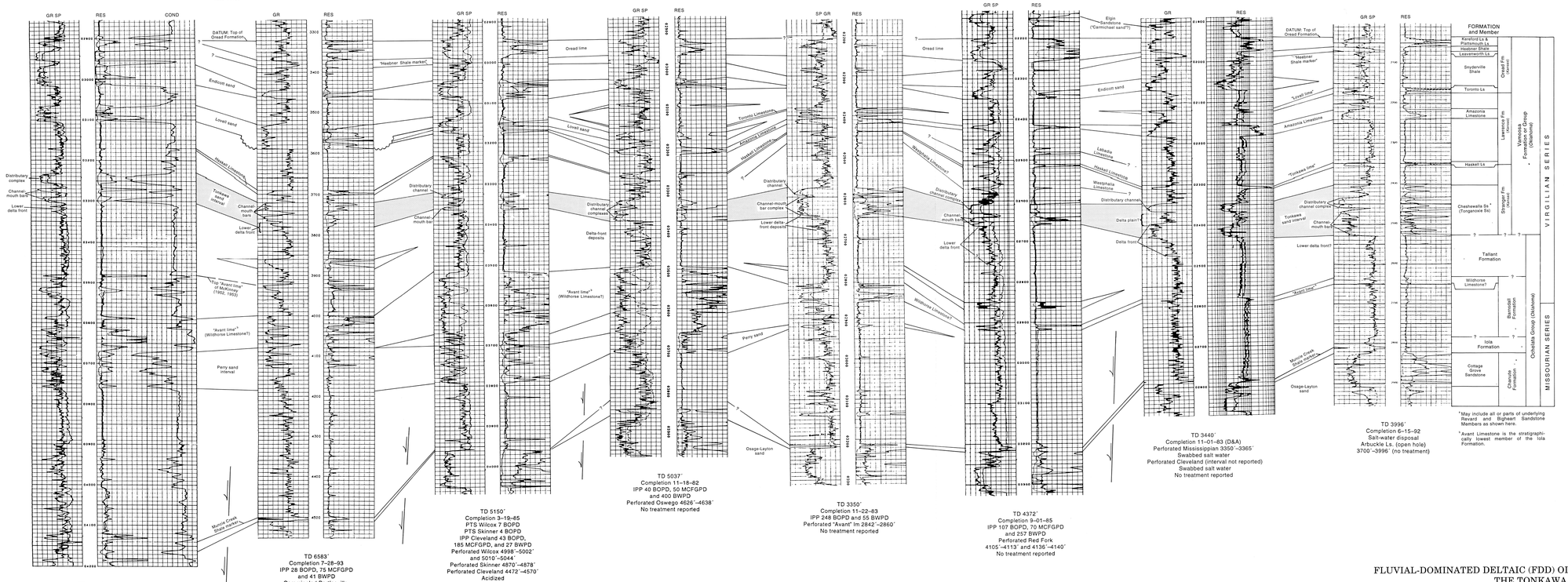
†Avant Limestone is the stratigraphically lowest member of the Iola Formation.



INDEX MAP OF OKLAHOMA SHOWING MAPPED AREA AND GENERALIZED LOCATION OF CROSS SECTIONS *A–A´* AND *B–B´*

B *South* — *B´* *North*

9 Marjo Oil Co. 1–7 Donoghue N2 SW SE 7, 17N–1W KB 987´ Guthrie Field
~12.5 miles
10 J. L. Thomas Energy, Inc 6 Eastwood C NE NE SE 8, 18N–3W KB 937´ Elk Horn South Field
~10.5 miles
11 Energy Reserves Group, Inc 7 Kolb NE SE NW 33, 20N–2W KB 1146´ Lucien Field
~7.5 miles
12 J. H. McNeal Oil Operations, Inc. 1 Edgar S/2 NE NE NE 26, 21N–2W KB 1153´ Sams Field
~15 miles
13 Pathfinder Petroleum Corp. 1 Johnson C SW SW SE 13, 22N–1E KB 1020´ Otoe City East Field
~16 miles
14 Montauk Exploration 1 Caughlin SE SW SE 30, 25N–1E KB 954´ Tonkawa Field
~15 miles
15 Strike Energy, Inc. 1 Hardin NW NW SW 11, 27N–1W KB 1010´ Blackwell Field
~7.5 miles
16 Hewitt Energy Group, Inc 3 HEG Payne NE NW SW 5, 28N–1W KB 1068´ Braman Field



TD 5049´
Completion 2–24–86 (OWWO)
IPF Prue, 2 BOPD, 150 MCFGPD
and 1 BWPD
IPF "Tonkawa," 12 BOPD, 30 MCFGPD
and 5 BWPD
Perforated Prue 4869´–4900´
Perforated "Tonkawa" 3512´–3524´

TD 6583´
Completion 7–28–93
IPP 28 BOPD, 75 MCFGPD
and 41 BWPD
Commingled Bartlesville,
Mississippian, and Viola
Perforated Bartlesville 5464´–5474´
Perforated Mississippian 5530´–5665´
Perforated Viola 5992´–6007´
Acidized and fractured

TD 5150´
Completion 3–19–85
PTS Wilcox 7 BOPD
PTS Skinner 4 BOPD
IPP Cleveland 43 BOPD,
185 MCFGPD, and 27 BWPD
Perforated Wilcox 4998´–5002´
and 5010´–5044´
Perforated Skinner 4870´–4878´
Perforated Cleveland 4472´–4570´
Acidized

TD 5037´
Completion 11–18–82
IPP 40 BOPD, 50 MCFGPD
and 400 BWPD
Perforated Oswego 4626´–4638´
No treatment reported

TD 3550´
Completion 11–22–83
IPP 248 BOPD and 55 BWPD
Perforated "Avant" lm 2842´–2860´
No treatment reported

TD 4372´
Completion 9–01–85
IPP 107 BOPD, 70 MCFGPD
and 257 BWPD
Perforated Red Fork
4105´–4113´ and 4136´–4140´
No treatment reported

TD 3440´
Completion 11–01–83 (D&A)
Perforated Mississippian 3350´–3365´
Swabbed salt water
Perforated Cleveland (interval not reported)
Swabbed salt water
No treatment reported

TD 3996´
Completion 6–15–92
Salt-water disposal
Arbuckle Ls. (open hole)
3700´–3996´ (no treatment)

*May include all or parts of underlying Revard and Bigheart Sandstone Members as shown here.

†Avant Limestone is the stratigraphically lowest member of the Iola Formation.

EXPLANATION

GR Gamma-ray log
COND Conductivity log
SP Spontaneous-potential log
RES Resistivity log (short normal or shallow focused)

Faults shown in sections are those that have been documented in previous studies (Luza and Lawson, 1981)

KB 1270´ — Elevation of KB (kelly bushing) in feet above mean sea level; where KB was not recorded, GL (ground level) or DF (derrick floor) was used

2200 — Depth interval (100 ft)

2300 — Perforated interval

2400 / TD 7375´ — Total depth of well in feet below kelly bushing

Vertical scale: 1 inch =100 feet

No horizontal scale

Datum: Top of Oread Formation (Oread lime)

FLUVIAL-DOMINATED DELTAIC (FDD) OIL RESERVOIRS IN OKLAHOMA: THE TONKAWA PLAY
REGIONAL STRATIGRAPHIC CROSS SECTIONS *A–A´* AND *B–B´*, NORTH-CENTRAL OKLAHOMA

By
J. A. Campbell
1997