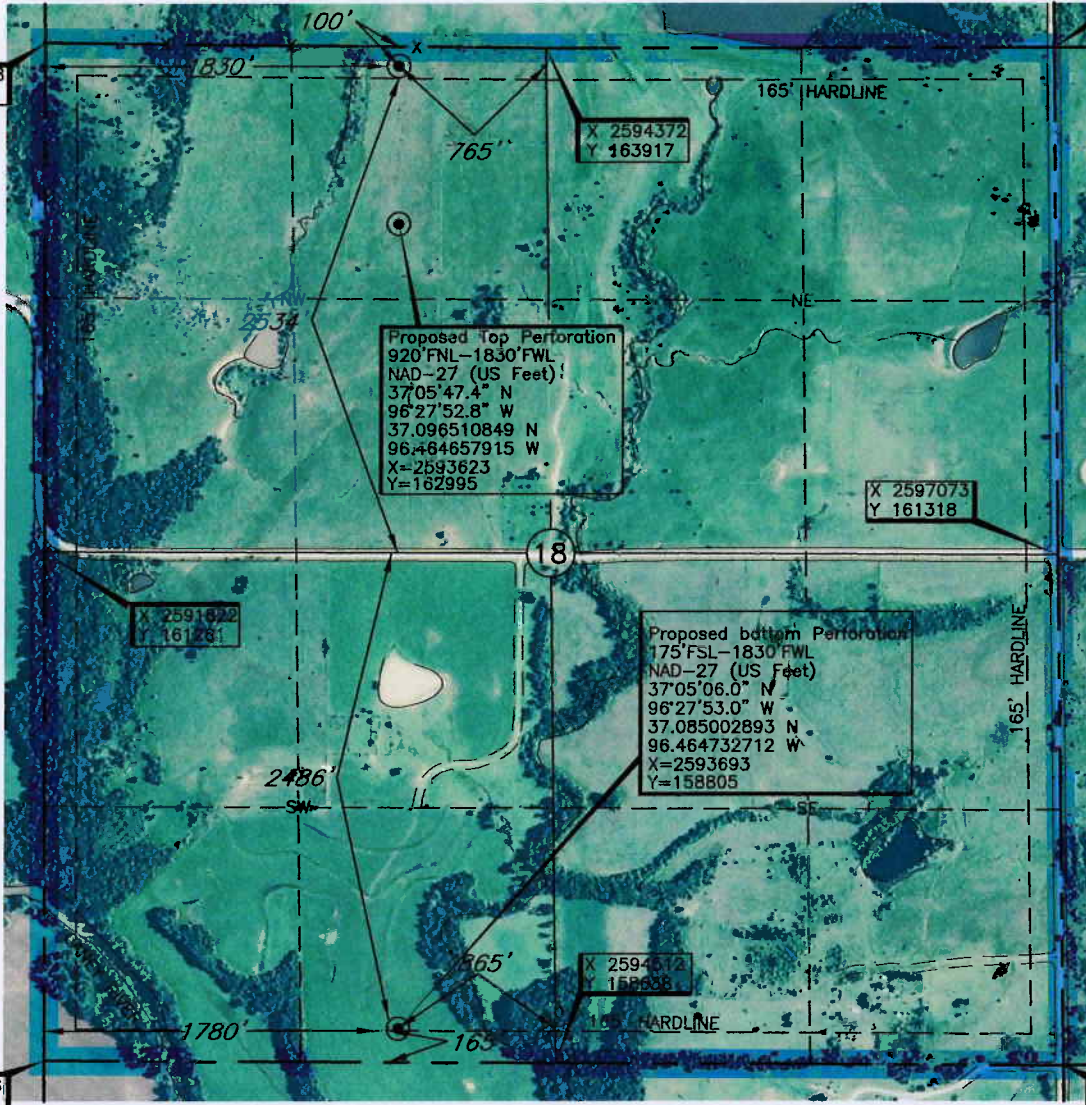


CHAUTAUQUA

County, Kansas

100' FNL-1830' FWL Section 18 Township 34S Range 9E P.M.



X 2591778
Y 163909

X 2594372
Y 163917

X 2597011
Y 163956

Proposed Top Perforation
 920' FNL-1830' FWL
 NAD-27 (US Feet):
 37°05'47.4" N
 96°27'52.8" W
 37.096510849 N
 96.464657915 W
 X=2593623
 Y=162995

X 2597073
Y 161318

X 2591622
Y 161261

Proposed bottom Perforation
 175' FSL-1830' FWL
 NAD-27 (US Feet)
 37°05'06.0" N
 96°27'53.0" W
 37.085002893 N
 96.464732712 W
 X=2593693
 Y=158805

Bottom Hole
 165' FSL-1830' FWL
 NAD-27 (US Feet)
 37°05'05.9" N
 96°27'53.0" W
 37.084975429 N
 96.464732891 W
 X=2593693
 Y=158795

X 2594612
Y 158838

X 2591866
Y 158613

X 2597148
Y 158663

Bottom Hole Information Provided
 by Operator Listed, NOI Surveyed.
 Corner Coordinates are Taken
 from Points Surveyed in the Field.

Distances shown in (parenthesis) are calculated based
 upon the Quarter Section being 2640 feet, those shown
 in [brackets] are based on GLO (General Land Office)
 distances and have NOI been measured on the ground.

Operator: NEMAHA OIL AND GAS

Lease Name: MASSEY

Well No.: 1A-18-34-9H

ELEVATION:
946' Gr. at Stake

Topography & Vegetation Loc. fell in rolling pasture

Good Drill Site? Yes

Reference Stakes or Alternate Location
 Stakes Set None

Best Accessibility to Location From East off county road

Distance & Direction
 from Hwy Jct or Town From Cedar Vale, KS, go East ±2.0 mi, then ±1.0 mi South to
arrive at the Northeast corner of Sec. 18-T34S-R9E

This information was gathered with a GPS receiver with Sub-Meter accuracy.

DATUM: NAD-27
 LAT: 37°05'55.5"N
 LONG: 96°27'52.7"W
 LAT: 37.098762864
 LONG: 96.464640974
 STATE PLANE
 COORDINATES: (US Feet)
 ZONE: KANSAS SOUTH
 X: 2593610
 Y: 163815

Revision C Date of Drawing: Nov. 27, 2012
 Invoice # 192525 Date Staked: Nov. 13, 2012

LC

CERTIFICATE:

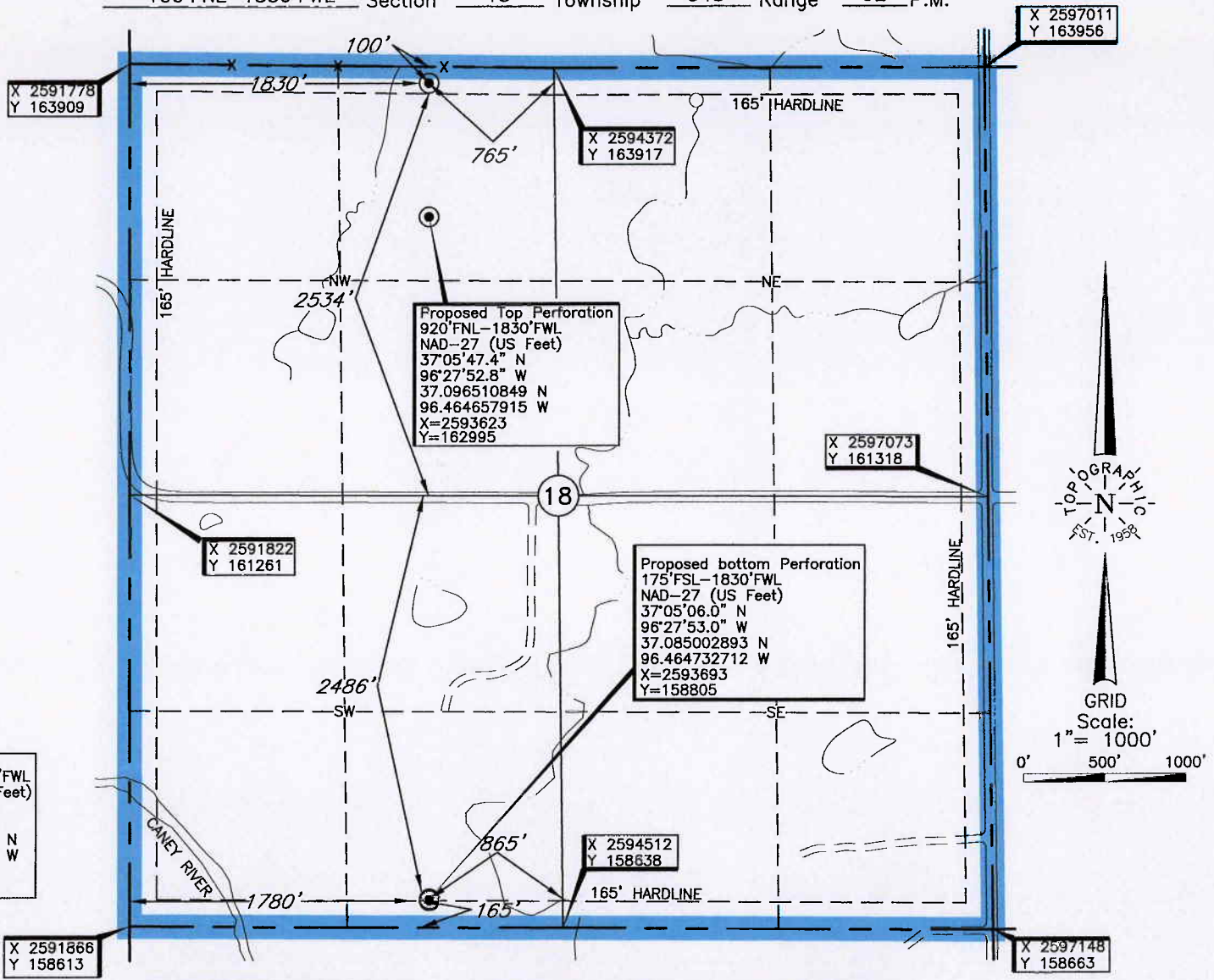
I, Michael Blake Brown a Kansas Licensed Land Surveyor and an authorized agent of Topographic Land Surveyors, do hereby certify that the above described well location was surveyed and staked on the ground as shown herein.



CHAUTAUQUA

County, Kansas

100' FNL - 1830' FWL Section 18 Township 34S Range 9E P.M.



Bottom Hole Information Provided by Operator Listed, NOT Surveyed. Corner Coordinates are Taken from Points Surveyed in the Field.

Distances shown in (parenthesis) are calculated based upon the Quarter Section being 2640 feet, those shown in [brackets] are based on GLO (General Land Office) distances and have NOT been measured on the ground.

Operator: NEMAHA OIL AND GAS

Lease Name: MASSEY Well No.: 1A-18-34-9H **ELEVATION:** 946' Gr. at Stake

Topography & Vegetation Loc. fell in rolling pasture

Good Drill Site? Yes Reference Stakes or Alternate Location Stakes Set None

Best Accessibility to Location From East off county road

Distance & Direction From Cedar Vale, KS, go East ±2.0 mi, then ±1.0 mi South to arrive at the Northeast corner of Sec. 18-T34S-R9E

This information was gathered with a GPS receiver with Sub-Meter accuracy.

DATUM: NAD-27
 LAT: 37°05'55.5"N
 LONG: 96°27'52.7"W
 LAT: 37.098762864
 LONG: 96.464640974
 STATE PLANE
 COORDINATES: (US Feet)
 ZONE: KANSAS SOUTH
 X: 2593610
 Y: 163815

Revision C Date of Drawing: Nov. 27, 2012
 Invoice # 192525 Date Staked: Nov. 13, 2012

CERTIFICATE:
 I, Michael Blake Brown a Kansas Licensed Land Surveyor and an authorized agent of Topographic Land Surveyors, do hereby certify that the above described well location was surveyed and staked on the ground as shown herein.



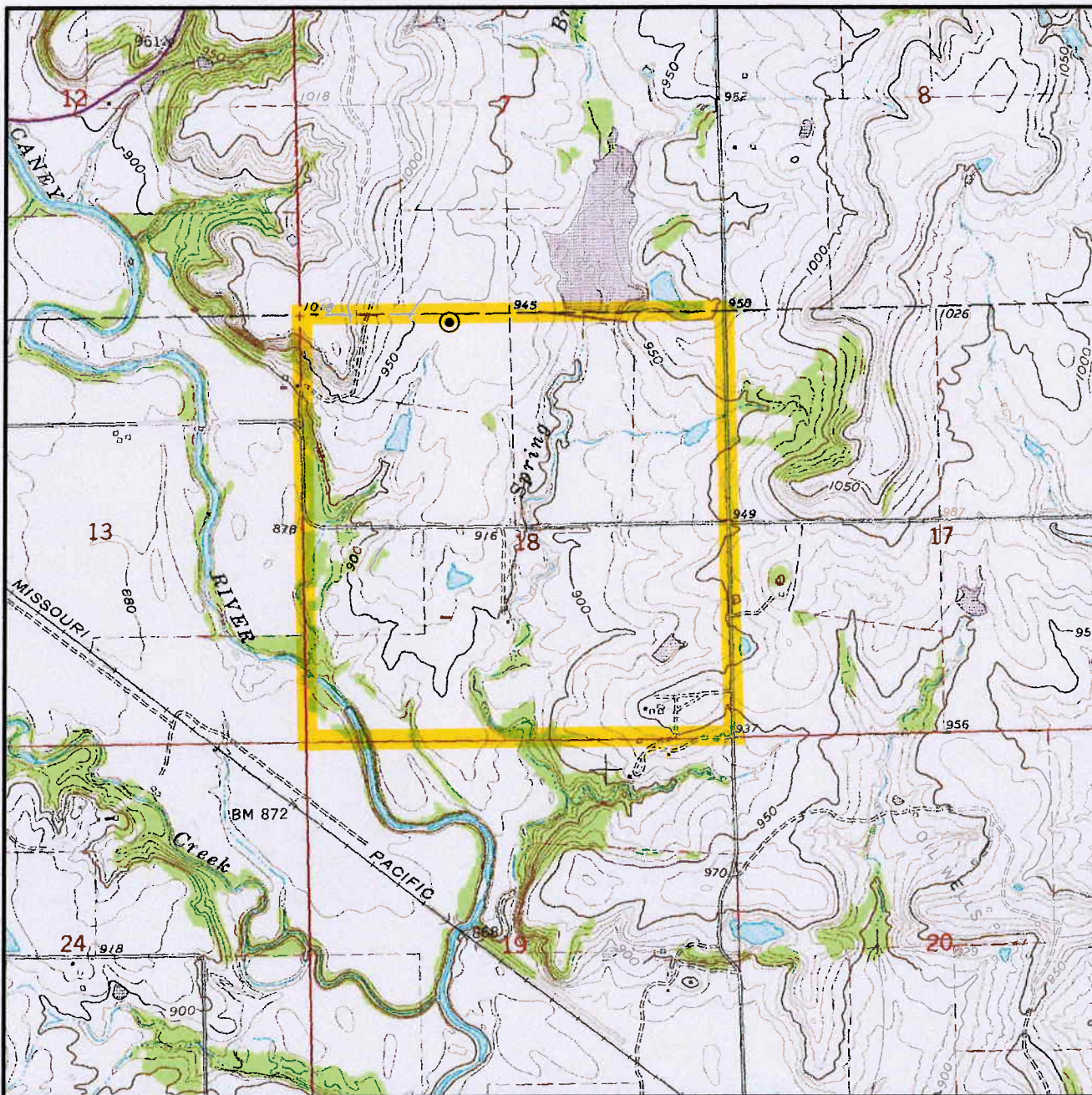
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Surveying and Mapping for the Energy Industry

6709 North Classen Blvd. Oklahoma City, OK 73116 www.topographic.com

Telephone Numbers: Local (405) 843-4847 Toll Free (800) 654-3219

LOCATION & ELEVATION VERIFICATION MAP



Sec. 18 Twp. 34S Rng. 9E

County CHAUTAUQUA State KS

Operator NEMAHA OIL AND GAS

Description 100'FNL-1830'FWL

Lease MASSEY 1A-18-34-9H

Elevation 946' Gr. at Stake

U.S.G.S. Topographic
Quadrangle Map CEDAR VALE EAST, KS

Above Background Data from
U.S.G.S. Topographic Map

Scale: 1"=2000'

Contour Interval 10'

This location has been very carefully staked on the ground according to the best official survey records, maps and photographs available to us, but its accuracy is not guaranteed. When elevation is shown hereon it is the ground elevation of the location stake.

Review this plat and inform us immediately of any possible discrepancy.

TOPOGRAPHIC

SURVEYING • MAPPING • GIS • GPS

LAND SURVEYORS

Nov. 13, 2012

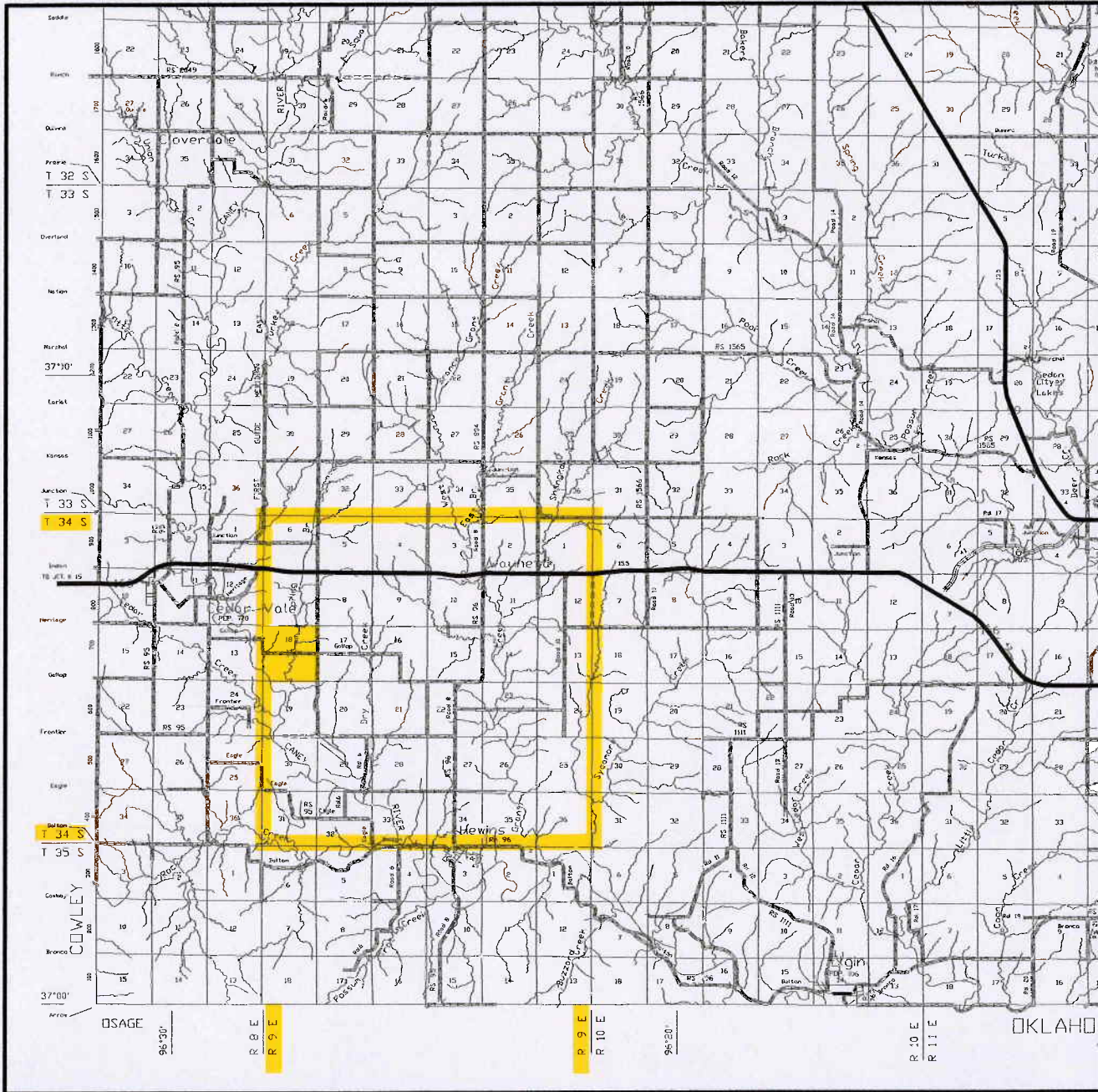
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VICINITY MAP



Scale: 1" = 3 Miles

Sec. 18 Twp. 34S Rng. 9E

County CHAUTAUQUA State KS

Operator NEMAHA OIL AND GAS

TOPOGRAPHIC
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