

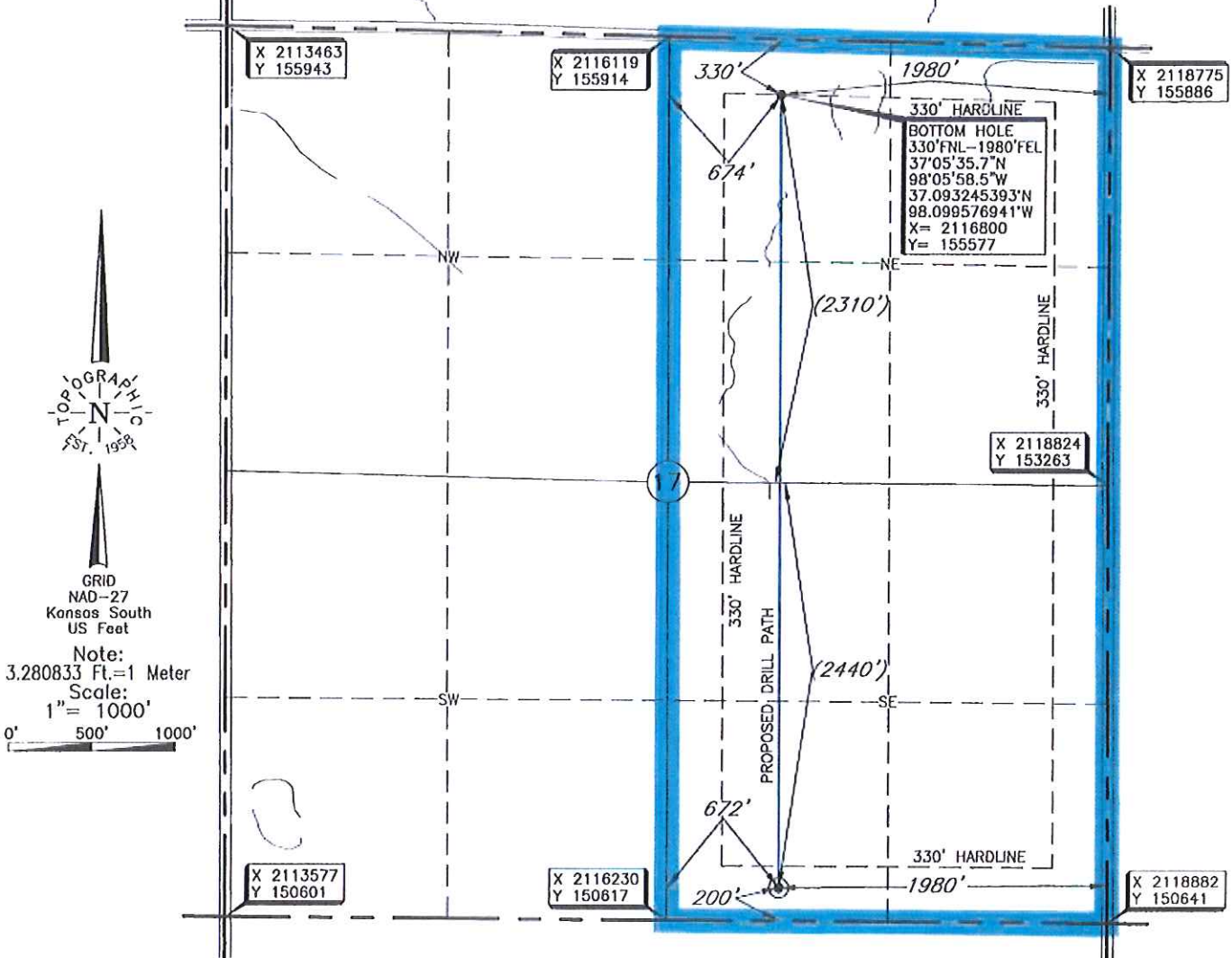
TOPOGRAPHIC LAND SURVEYORS

6709 NORTH CLASSEN BLVD., OKLA. CITY, OKLA. 73116 * LOCAL (405) 843-4847 * OUT OF STATE (800) 654-3219
 Certificate of Authorization No. LS-99, Exp. Dec. 31, 2015

HARPER

County, Kansas

200'FSL-1980'FEL Section 17 Township 34S Range 7W P.M.



[BOTTOM HOLE, AND DRILL PATH INFORMATION PROVIDED BY OPERATOR LISTED, NOT SURVEYED.]

Operator: TAPSTONE ENERGY
 Lease Name: THOMAS 17-34-7 Well No.: 1H **ELEVATION:** 1395' Gr. at Stake

Topography & Vegetation Location fell in terraced wheat field on a hill top.

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

Best Accessibility to Location From county road East of well location.

Distance & Direction from Hwy Jct or Town From Waldron, go North ±4 miles, then East ±5 miles, then North ±1 mile to the Southeast corner of Section 17, T34S-R7W.

DATUM: NAD-27 Invoice # 238598 Date of Drawing: Jan. 15, 2015
 LAT: 37°04'48.7"N Date Staked: Jan. 14, 2015 JWG
 LONG: 98°05'57.5"W
 LAT: 37.080188146°N
 LONG: 98.099313691°W

This information was gathered with a GPS receiver with ±1 foot Horiz./Vert. accuracy.

STATE PLANE COORDINATES: (US Feet)
 ZONE: KS SOUTH
 X: 2116897
 Y: 150823

CERTIFICATE:

I, Lee K. Goss a Kansas Licensed Land Surveyor and an authorized agent of Topographic Land Surveyors, do hereby certify to the information shown herein.

