

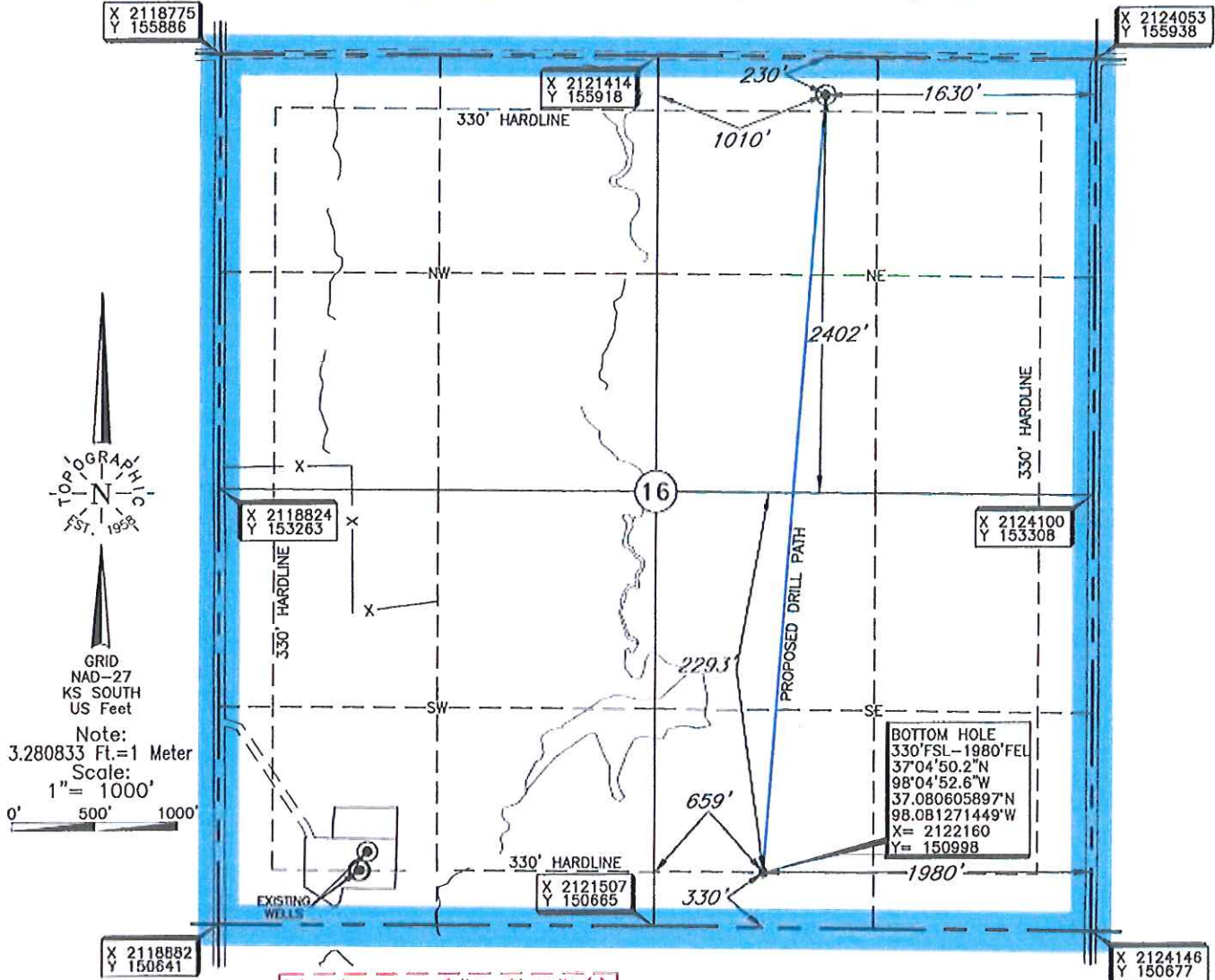
TOPOGRAPHIC LAND SURVEYORS

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

230'FNL - 1630'FEL Section 16 Township 34S Range 7W P.M.



A boundary survey of the acid section(s) shown hereon was not performed per the request of the operator shown hereon.

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

Operator: TAPSTONE ENERGY
 Lease Name: CARTMILL 16-34-7

ELEVATION:
1348' Gr. At Stake

Topography & Vegetation Location fell in sloped, terraced pasture, ±160' South of drain.

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

Best Accessibility to Location From lease road North of well location.

Distance & Direction from Hwy Jct or Town From Anthony, KS, go ±2.0 mi. West on St. Hwy. 14, then ±4.0 mi. South, then 0.5 miles West to the Northeast Corner of Section 16, T34S-R7W.

Revision B Date of Drawing: April 27, 2015
 Invoice # 242719 Date Staked: April 2, 2015 JGW

DATUM: NAD-27
 LAT: 37°05'36.6\"/>

CERTIFICATE:

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



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