

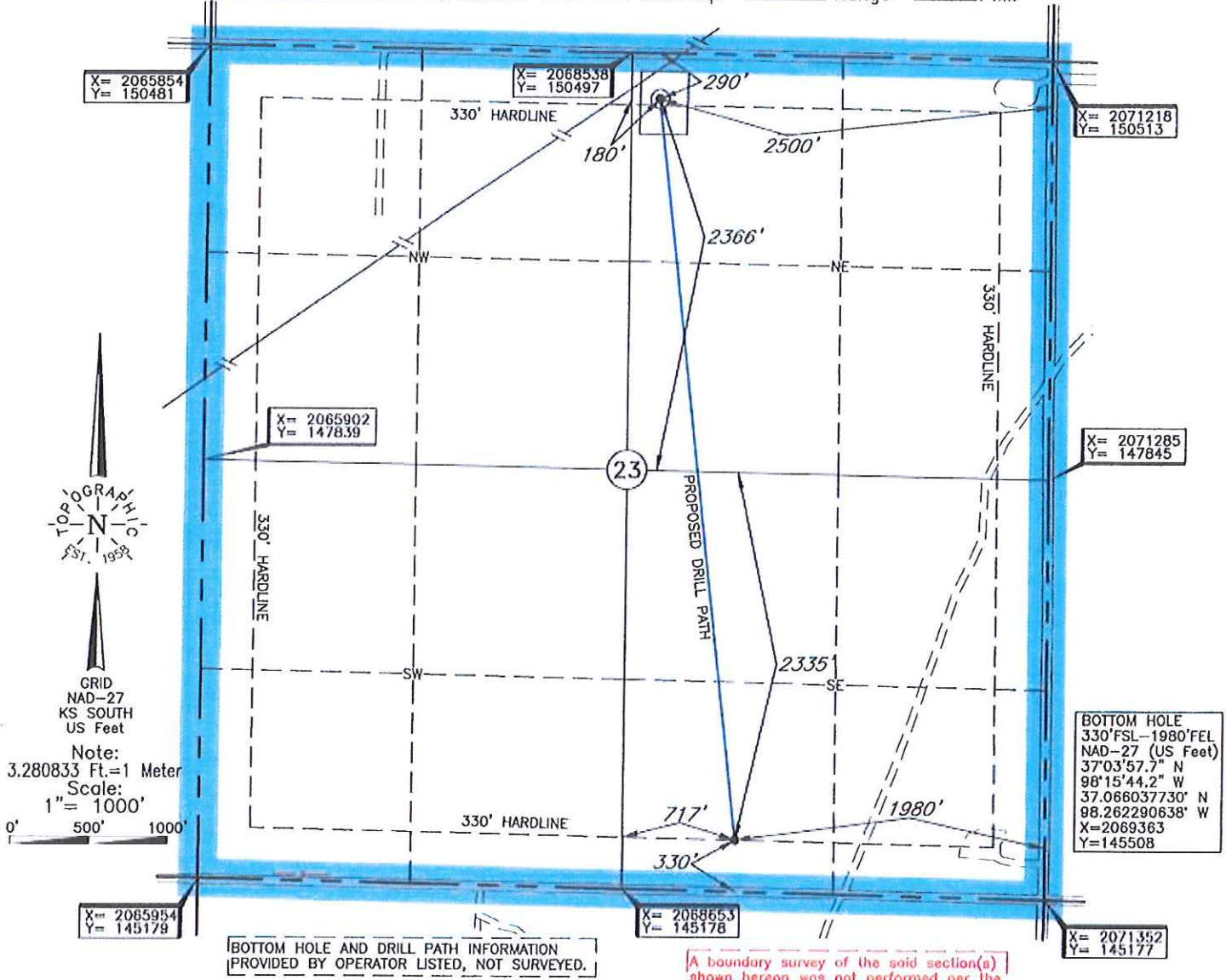
**TOPOGRAPHIC LAND SURVEYORS**

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

290'FNL - 2500'FEL Section 23 Township 34S Range 9W P.M.



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

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

BOTTOM HOLE  
 330'FSL-1980'FEL  
 NAD-27 (US Feet)  
 37°03'57.7" N  
 98°15'44.2" W  
 37.066037730' N  
 98.262290638' W  
 X=2069363  
 Y=145508

Operator: TAPSTONE ENERGY  
 Lease Name: HAZEL 23-34-9 Well No.: 2H **ELEVATION:** 1288' Gr. at Stake  
 Topography & Vegetation Loc. fell in sandy hilly pasture, ±180' East of fence, ±200' South of fence  
 Good Drill Site? Yes Reference Stakes or Alternate Location Stakes Set None  
 Best Accessibility to Location From North off county road  
 Distance & Direction From Hwy Jct or Town From Anthony, KS, go ±12.5 mi. West, then ±5.0 mi. South to the NE Cor. of Sec. 23-T34S-R9W

This information was gathered with a GPS receiver with ±1 foot Horiz./Vert. accuracy.  
 DATUM: NAD-27  
 LAT: 37°04'44.2"N  
 LONG: 98°15'52.0"W  
 LAT: 37.078950282' N  
 LONG: 98.264436906' W  
 STATE PLANE  
 COORDINATES: (US Feet)  
 ZONE: KS SOUTH  
 X: 2068725  
 Y: 150208

Date of Drawing: Jun. 22, 2015  
 Invoice # 246139 Date Staked: Jun. 18, 2015 AC

**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

