

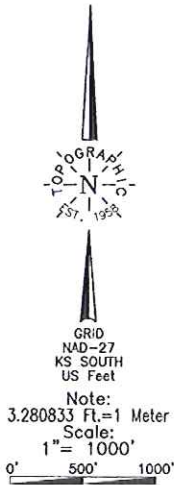
TOPOGRAPHIC LAND SURVEYORS

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

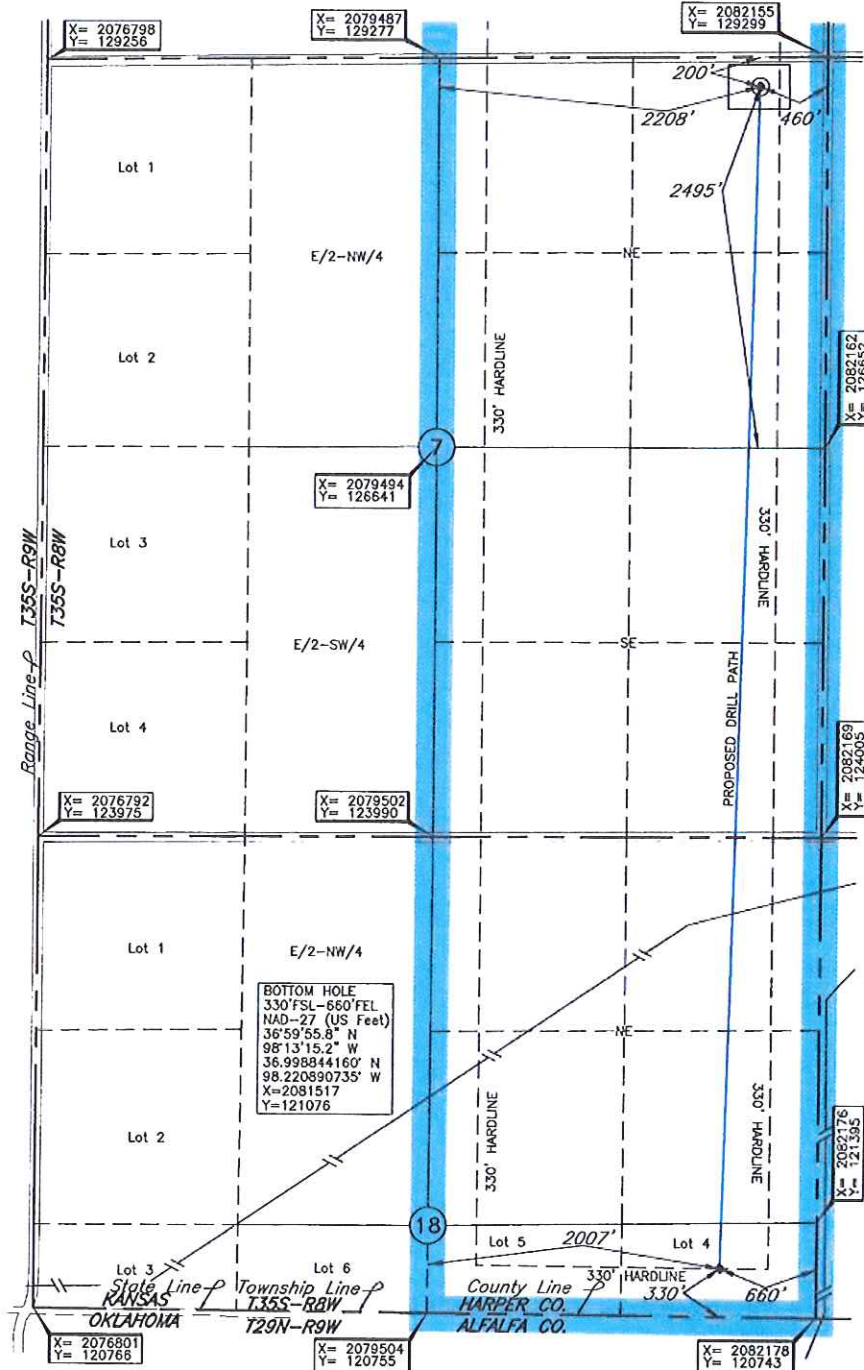
HARPER

County, Kansas

200' FNL - 460' FEL Section 7 Township 35S Range 8W P.M.



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



Operator: TAPSTONE ENERGY
 Lease Name: ELIZABETH 18-35-8
 Topography & Vegetation: Loc. fell in brushy pasture
 Good Drill Site? Yes
 Reference Stakes or Alternate Location: Stakes Set None
 Well No.: 1H
 ELEVATION: 1230 Gr. at Stake

Best Accessibility to Location: From North off county road
 Distance & Direction: From Waldron, KS, go ±1.0 mi. North, then ±2.0 mi. West to the NE Cor. of Sec. 7-T35S-R8W

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

This information was gathered with a GPS receiver with ±1 ft. accuracy.

DATUM: NAD-27
 LAT: 37°01'15.1"N
 LONG: 98°13'12.7"W
 LAT: 37.020867017° N
 LONG: 98.220196218° W
 STATE PLANE COORDINATES: (US Feet)
 ZONE: KS SOUTH
 X: 2081695
 Y: 129095

Revision A Jan. 19, 2015
 Invoice # 238766 Date Staked: Jan. 08, 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

