

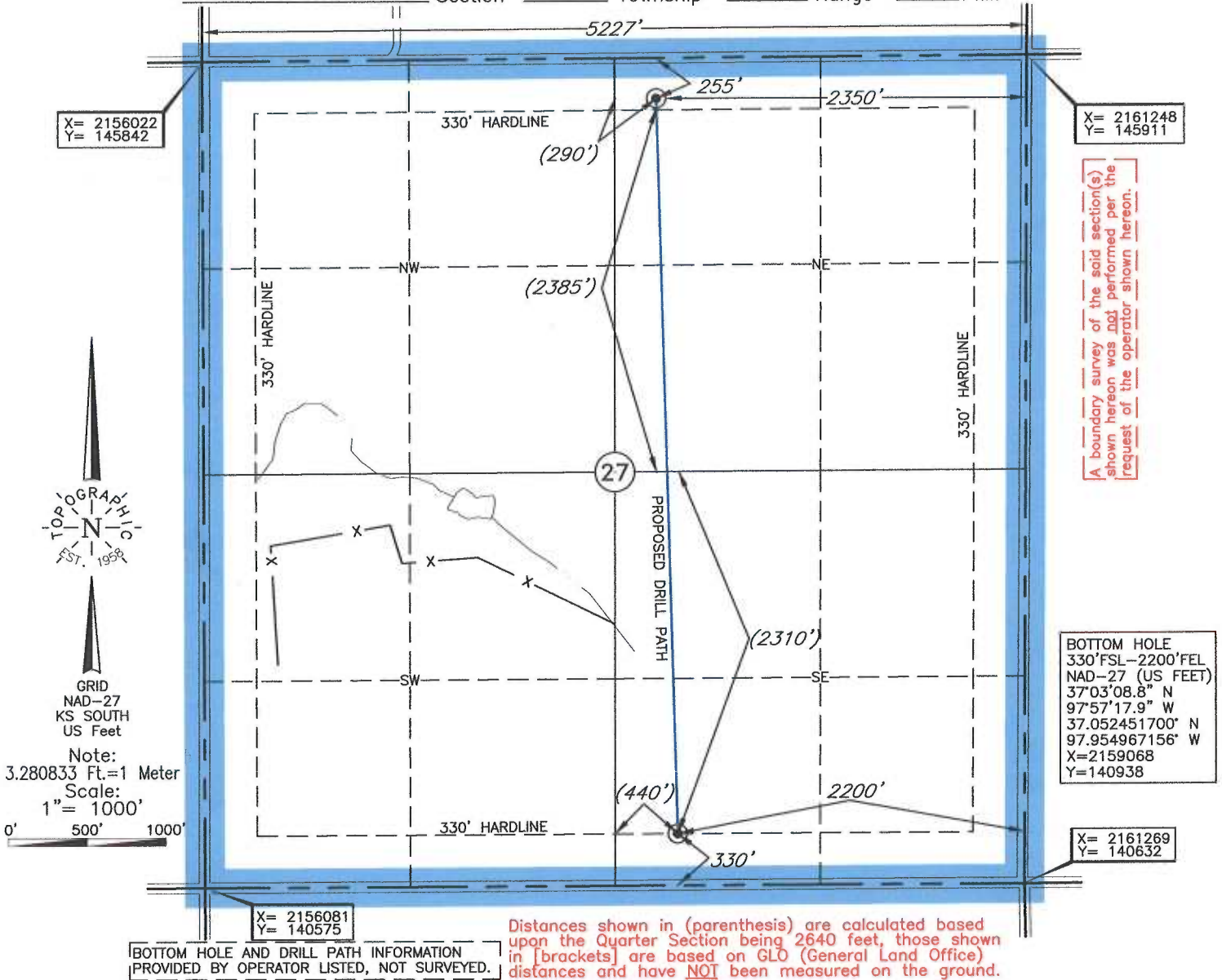
TOPOGRAPHIC LAND SURVEYORS

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

255'FNL-2350'FEL Section 27 Township 34S Range 6W P.M.



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-2200'FEL
 NAD-27 (US FEET)
 37°03'08.8" N
 97°57'17.9" W
 37.052451700" N
 97.954967156" W
 X=2159068
 Y=140938

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

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: SANDRIDGE EXPLORATION & PRODUCTION, LLC **ELEVATION:**
1333' Gr. at Stake

Lease Name: JOYCE 3406 Well No.: 2-27H

Topography & Vegetation Loc. fell in terraced plowed field, 176' South of pipeline

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 Bluff, City, Ks, go ±1 mile South, then ±4 miles West to the NE Cor. of Sec. 27-T34S-R6W

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

DATUM: NAD-27
 LAT: 37°03'55.2"N
 LONG: 97°57'19.6"W
 LAT: 37.065326057° N
 LONG: 97.955452500° W
 STATE PLANE COORDINATES: (US Feet)
 ZONE: KS SOUTH
 X: 2158899
 Y: 145624

Date of Drawing: Sep. 19, 2014
 Invoice # 230922 Date Staked: Sep. 16, 2014 LC

CERTIFICATE:
 I, T. Wayne Fisch a Kansas Licensed Land Surveyor and an authorized agent of Topographic Land Surveyors, do hereby certify to the information shown herein

