

**TOPOGRAPHIC LAND SURVEYORS**

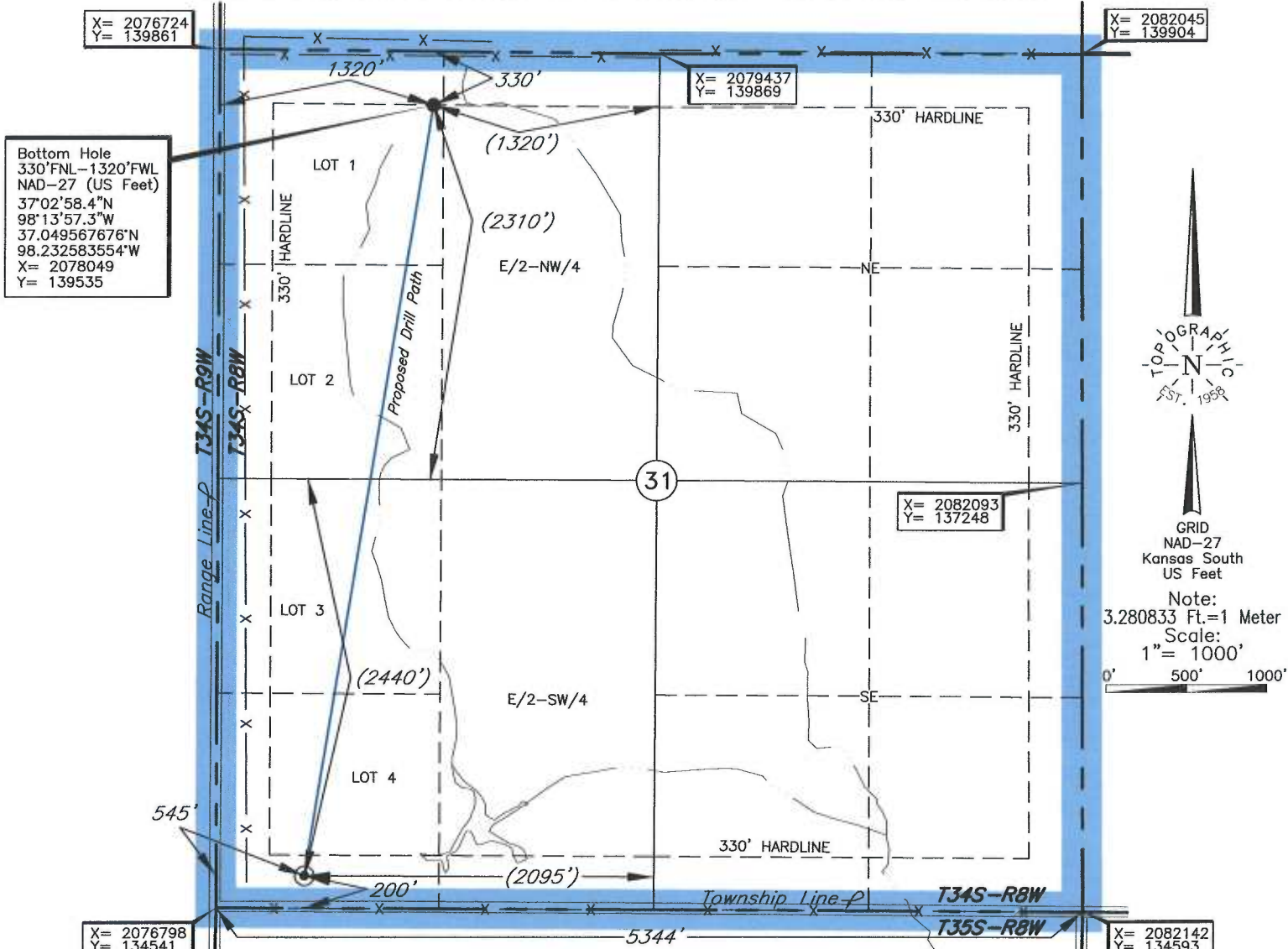
6709 NORTH CLASSEN BLVD., OKLA. CITY, OKLA. 73116 \* LOCAL (405) 843-4847 \* OUT OF STATE (800) 654-3219

Certificate of Authorization No. LS-99, Exp. Dec. 31, 2013

HARPER

County, Kansas

200'FSL-545'FWL Section 31 Township 34S Range 8W P.M.



Bottom Hole  
330'FNL-1320'FWL  
NAD-27 (US Feet)  
37°02'58.4"N  
98°13'57.3"W  
37.049567676°N  
98.232583554°W  
X= 2078049  
Y= 139535

Bottom Hole and Drill Path information provided by operator listed, NOT Surveyed; distance between drill paths are calculated.

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.

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

Note:  
3.280833 Ft.=1 Meter  
Scale:  
1"= 1000'  
0' 500' 1000'

Operator: SANDRIDGE EXPLORATION & PRODUCTION, LLC

Lease Name: ROSE 3408

Well No.: 3-31HR

**ELEVATION:**

1259' Gr. on Level Pad

Topography & Vegetation Loc. fell on level pad.

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

Best Accessibility to Location From county road South of location.

Distance & Direction from Hwy Jct or Town From Waldron, Kansas, go ±2.0 mi. North, then ±3.0 mi. West to the SW Corner of Section 31, T34S-R8W.

DATUM: NAD-27  
LAT: 37°02'11.1"N  
LONG: 98°14'06.2"W  
LAT: 37.036422267° N  
LONG: 98.235057947° W  
STATE PLANE  
COORDINATES: (US Feet)  
ZONE: KS SOUTH  
X: 2077340  
Y: 134746

Date of Drawing: July 03, 2014  
Invoice # 226955 Date Staked: July 3, 2014

**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.



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