

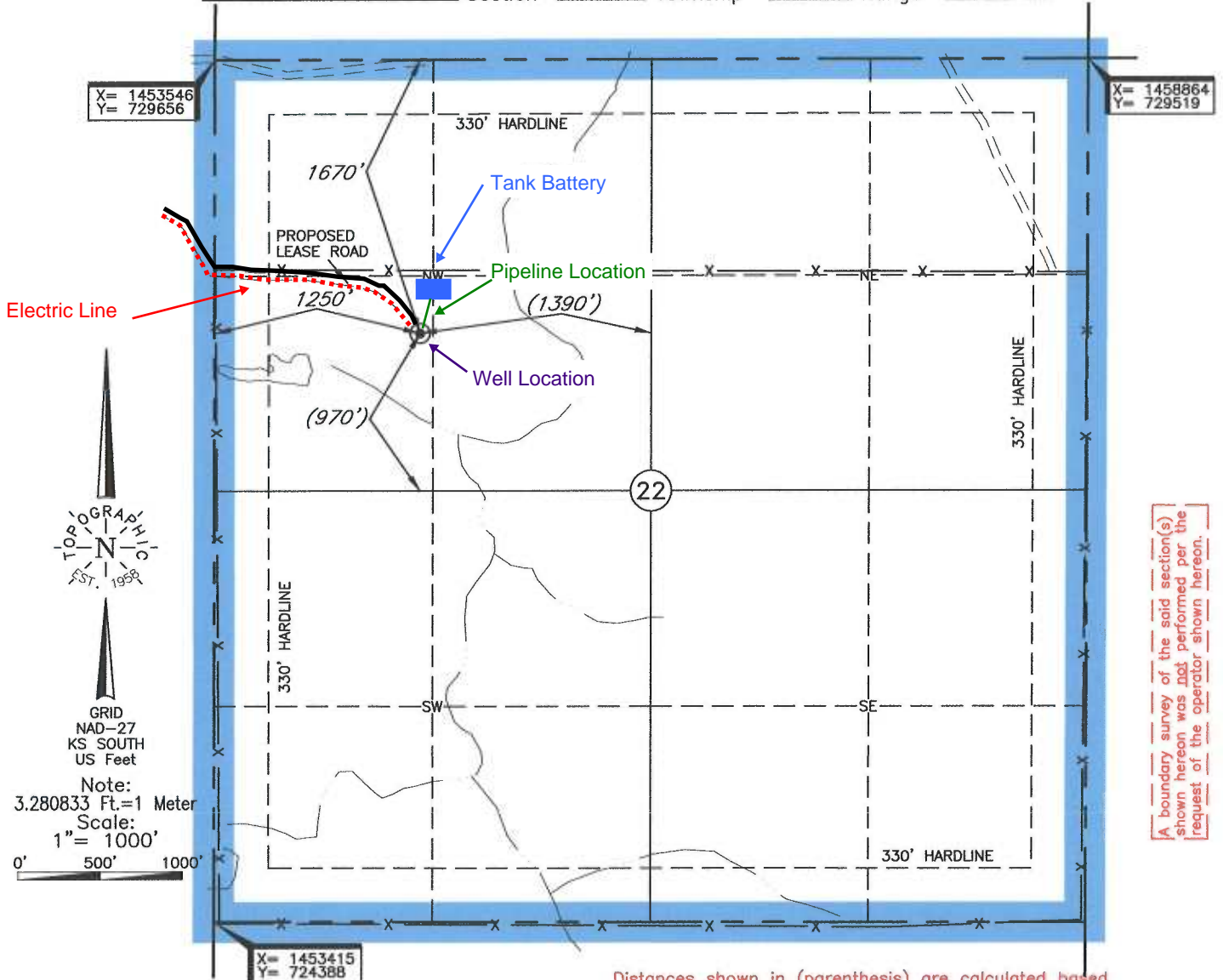
**TOPOGRAPHIC LAND SURVEYORS**

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

LANE

County, Kansas

1670'FNL - 1250'FWL Section 22 Township 16S Range 28W P.M.



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

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: CATO EXPLORATION, LLC

Lease Name: SHAY Well No.: 1 **ELEVATION:** 2653' Gr. at Stake

Topography & Vegetation Loc. fell in sloped grass pasture

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

Best Accessibility to Location From NW off lease road

Distance & Direction From Hwy Jct or Town From Shields, KS, go ±3.75 mi. North, then ±1.5 mi. East, then ±1.0 mi. South through Sec. 15 to the NW Cor. of Sec. 22-T16S-R28W

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

DATUM: NAD-27  
 LAT: 38°39'01.8"N  
 LONG: 100°24'33.0"W  
 LAT: 38.650492595° N  
 LONG: 100.409174333° W  
 STATE PLANE COORDINATES: (US Feet)  
 ZONE: KS SOUTH  
 X: 1454754  
 Y: 727954

Date of Drawing: Jun. 16, 2014  
 Invoice # 223440 Date Staked: Jun. 11, 2014 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

