

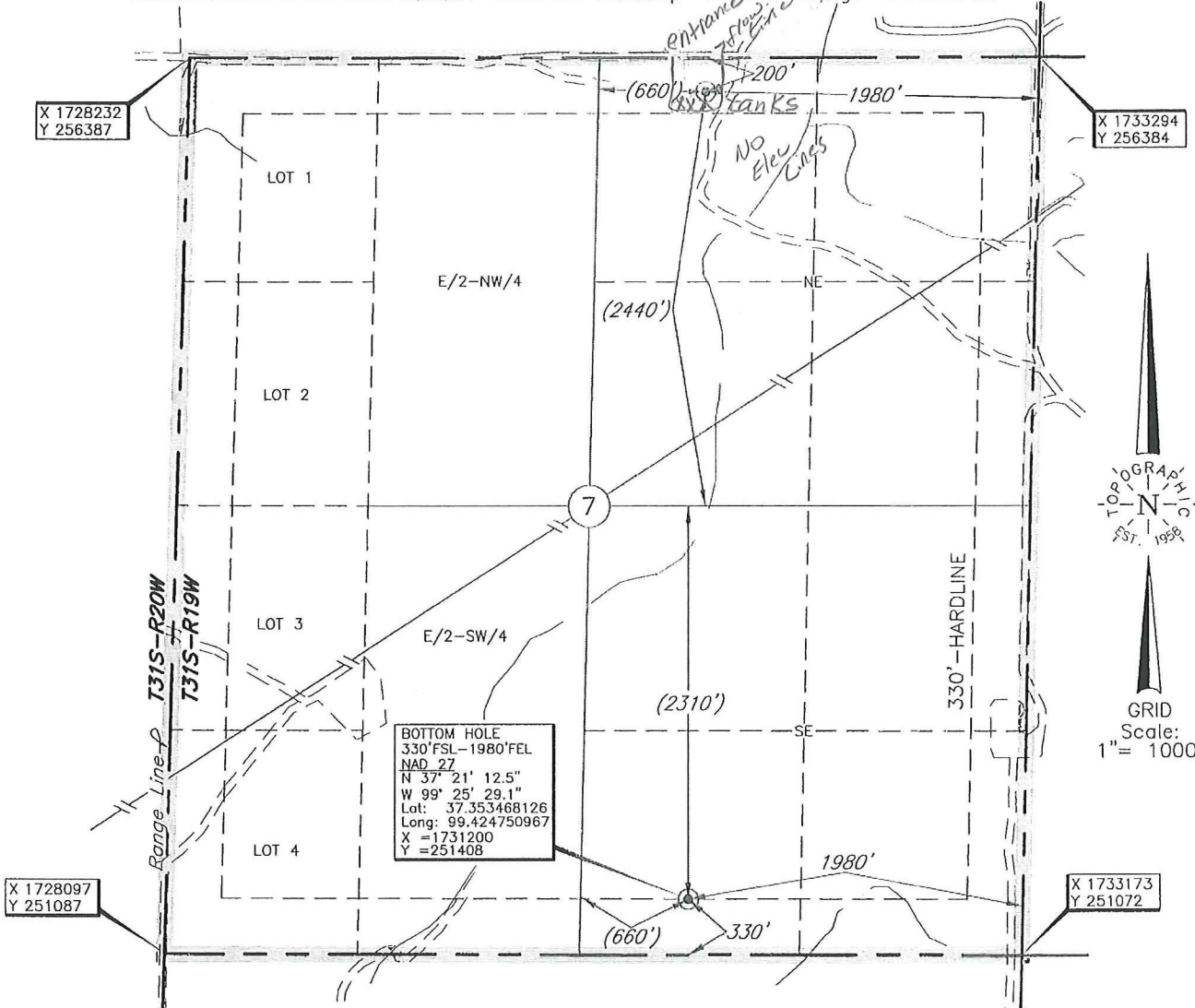
**TOPOGRAPHIC LAND SURVEYORS**

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, 2011

COMANCHE

County, Kansas

200'FNL-1980'FEL Section 7 Township 31S Range 19W P.M.



**BOTTOM HOLE**  
 330' FSL-1980' FEL  
 NAD 27  
 N 37° 21' 12.5"  
 W 99° 25' 29.1"  
 Lat: 37.353468126  
 Long: 99.424750967  
 X = 1731200  
 Y = 251408

BOTTOM HOLE INFORMATION PROVIDED BY OPERATOR LISTED, NOT SURVEYED. CORNER COORDINATES ARE TAKEN FROM POINTS SURVEYED IN THE FIELD.

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 ENERGY, INC.

Lease Name: MURPHY

Well No.: 1-7H

**ELEVATION:**  
2096' Gr. at Stake

Topography & Vegetation Loc. fell in sloped natural pasture.

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

Best Accessibility to Location From North and West on trail.

Distance & Direction from Hwy Jct or Town From Jct. US Hwy. 183 and US Hwy. 160 East, North of Coldwater, KS, go ±7.0 mi. North on US Hw 183, then ±5.0 mi. West to the Northeast corner of Sec.6-T31S-R19W. Continue South and West on trails to location in the Northeast quarter of Sec.7-T31S-R19W.

Date of Drawing: Dec. 30, 2011

Invoice # 177505 Date Staked: Dec. 29, 2011 IS

DATUM: NAD-27  
 LAT: 37°21'59.7"N  
 LONG: 99°25'28.3"W  
 LAT: 37.366590198°N  
 LONG: 99.424542400°W  
 STATE PLANE COORDINATES: (US Feet)  
 ZONE: KS SOUTH  
 X: 1731308  
 Y: 256185

**CERTIFICATE:**

I, T. Wayne Fisch a Kansas Licensed Land Surveyor and an authorized agent of Topographic Land Surveyors, do hereby certify that the above described well location was surveyed and staked on the ground as shown herein.

Oklahoma Lic. No. 1213



This information was gathered with a GPS receiver with Sub-Meter accuracy.

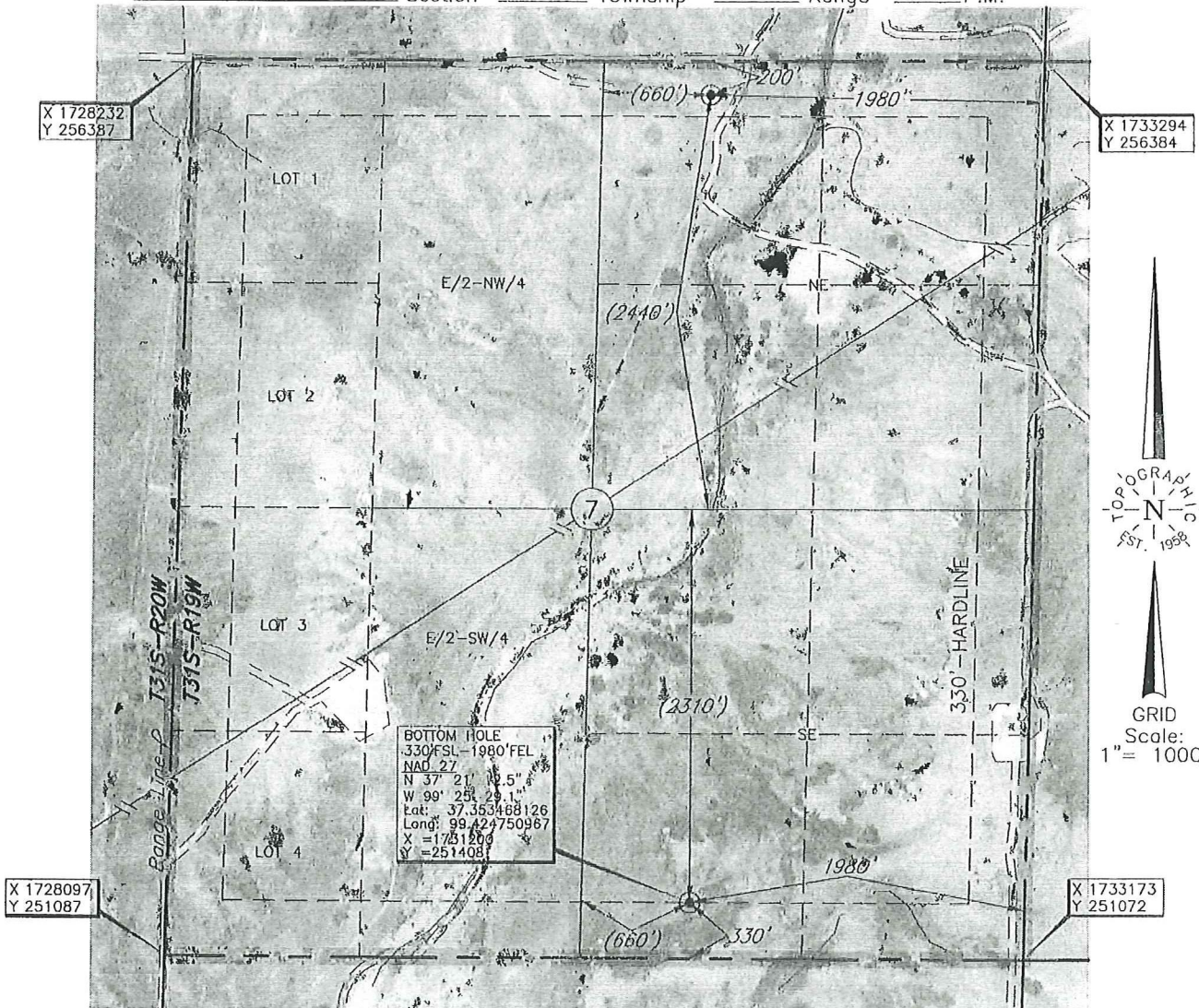
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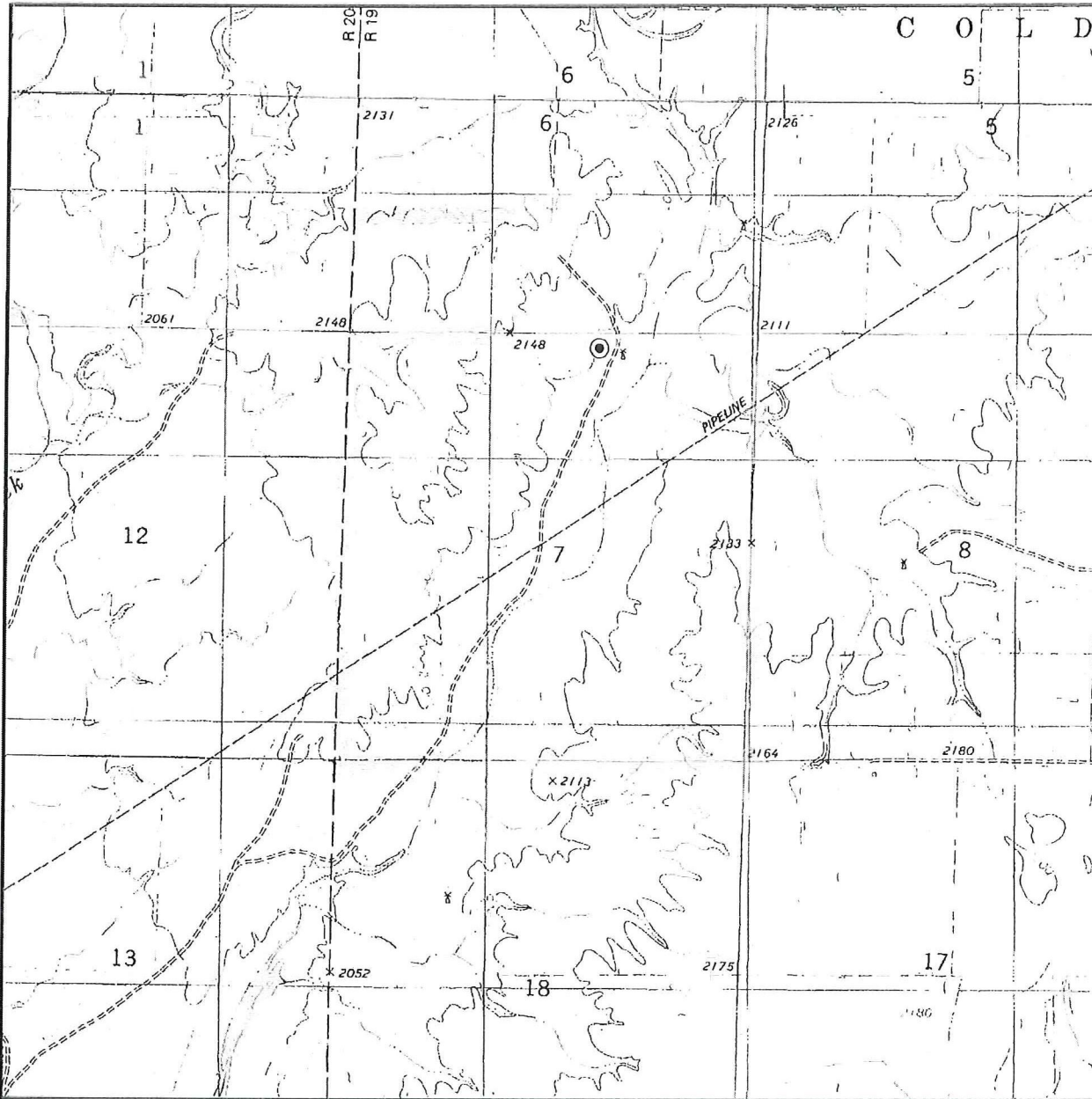


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Surveying and Mapping for the Energy Industry  
 6709 North Classen Blvd. Oklahoma City, OK 73116 www.topographic.com  
 Telephone Numbers: Local (405) 843-4847 Toll Free (800) 654-3219

## LOCATION & ELEVATION VERIFICATION MAP



Sec. 7 Twp. 31S Rng. 19W

County COMANCHE State KS

Operator SANDRIDGE ENERGY, INC.

Description 200'FNL-1980'FEL

Lease MURPHY 1-7H

Elevation 2096' Gr. at Stake

U.S.G.S. Topographic  
 Quadrangle Map EAST KIOWA CREEK SOUTH, KS

Above Background Data from  
 U.S.G.S. Topographic Map  
 Scale: 1"=2000'

Contour Interval 10'

This location has been very carefully staked on the ground according to the best official survey records, maps and photographs available to us, but its accuracy is not guaranteed. When elevation is shown hereon it is the ground elevation of the location stake.  
 Review this plat and inform us immediately of any possible discrepancy.

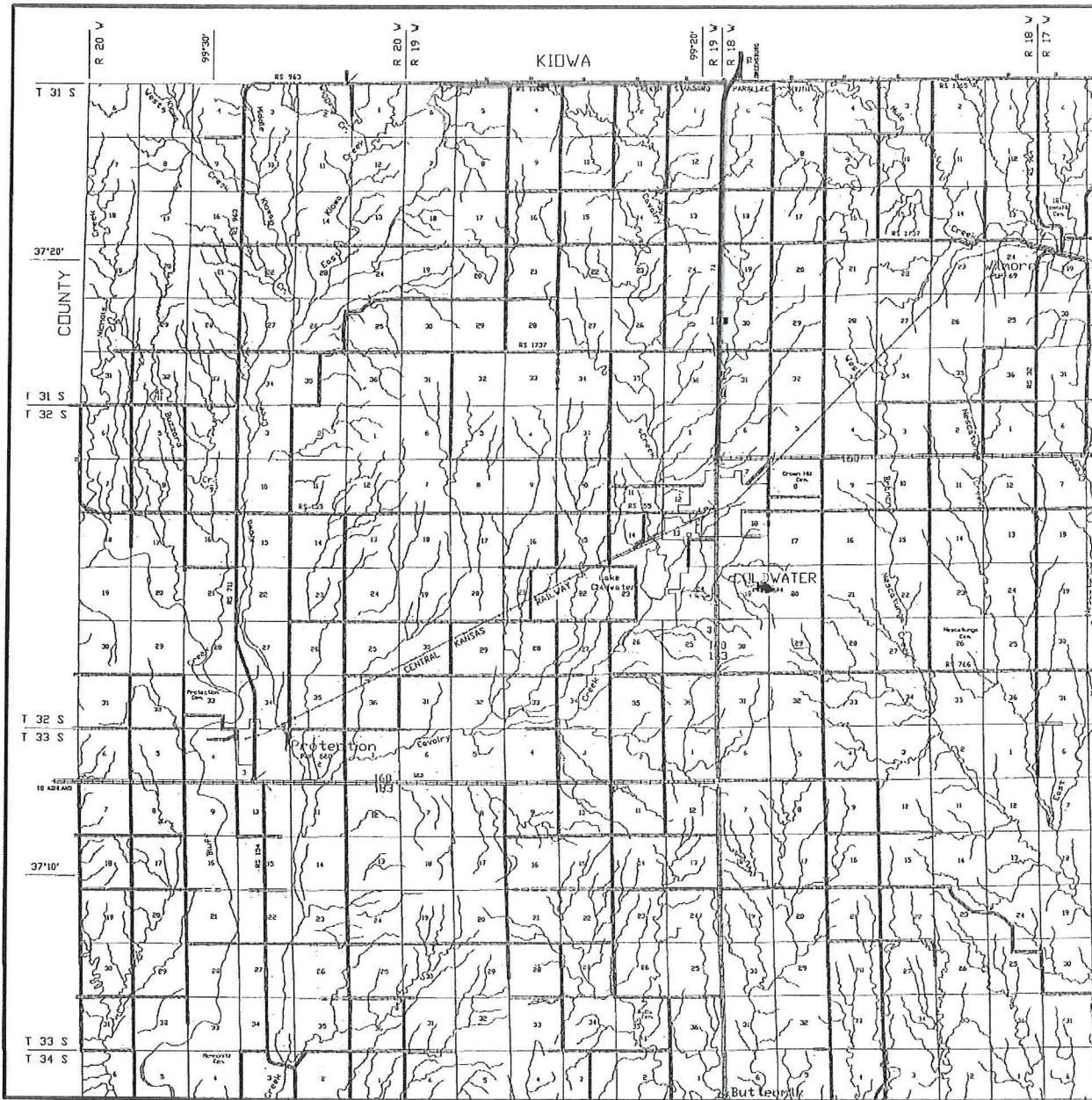
**TOPOGRAPHIC**  
 SURVEYING • MAPPING • GIS • GPS  
**LAND SURVEYORS**

Dec. 29, 2011

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## VICINITY MAP



Scale: 1" = 3 Miles

Sec. 7 Twp. 31S Rng. 19W

County COMANCHE State KS

Operator SANDRIDGE ENERGY, INC.

**TOPOGRAPHIC**  
 SURVEYING • MAPPING • GIS • GPS  
**LAND SURVEYORS**

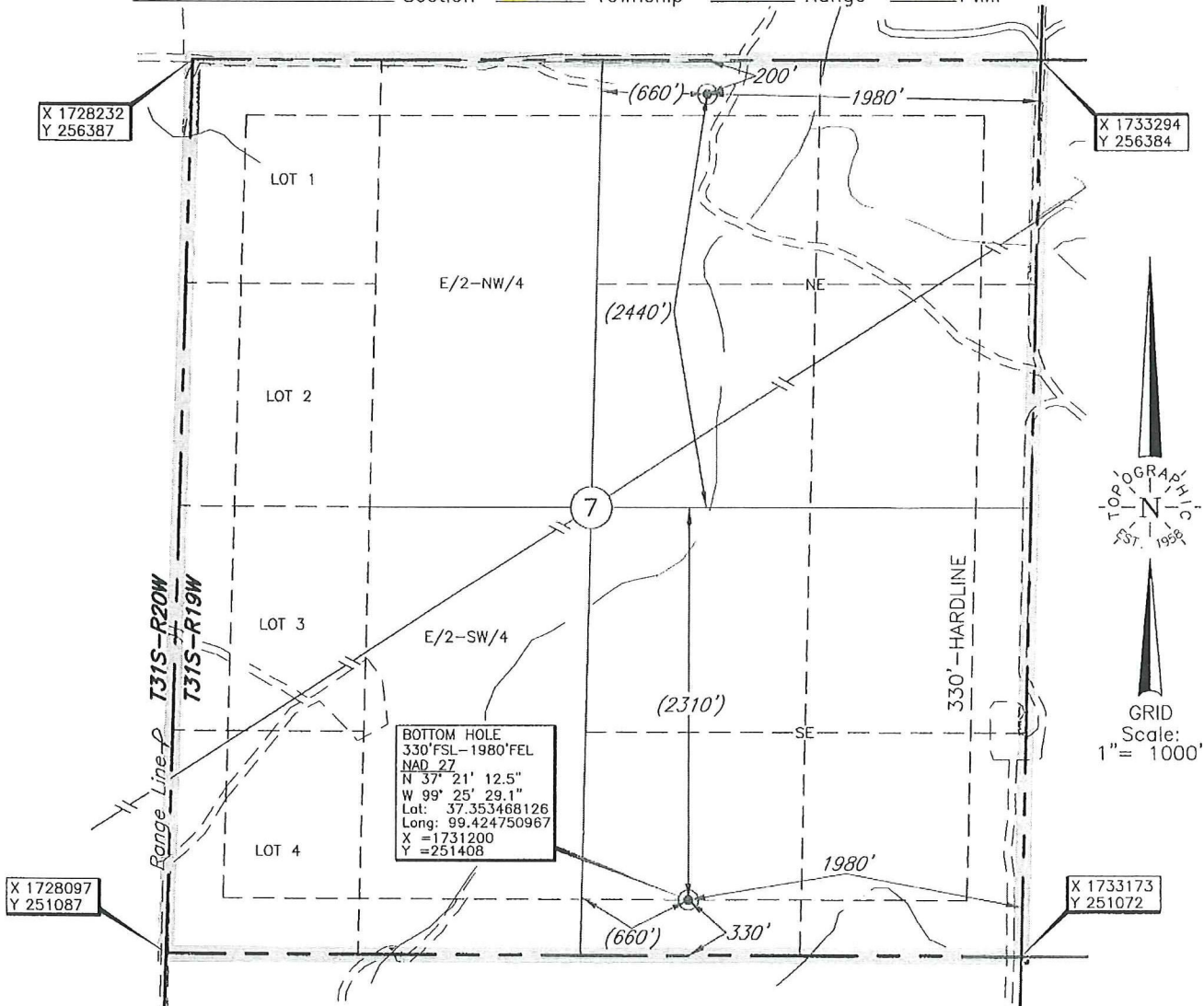
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