

**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

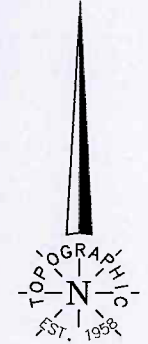
County, Kansas

660'FSL-1980'FWL Section 1 Township 33S Range 6W P.M.



X 2171269  
Y 198837

X 2165992  
Y 198725



GRID  
NAD-27  
KS SOUTH  
US Feet  
Note:  
3.280833 Ft.=1 Meter  
Scale:  
1"= 1000'  
0' 500' 1000'

X 2171339  
Y 193575

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 EXPLORATION & PRODUCTION, LLC

Lease Name: VOGEL 3306

Well No.: 1-1

**ELEVATION:**  
1357' Gr. at Stake

Topography & Vegetation Loc. fell in terraced wheat field

Good Drill Site? Yes

Reference Stakes or Alternate Location  
Stakes Set None

Best Accessibility to Location From South off county road

Distance & Direction  
from Hwy Jct or Town From Anthony, KS, go ±5.5 miles East on St. Hwy. 44, then ±3 miles North to the SW Cor. of Sec. 1-T33S-R6W

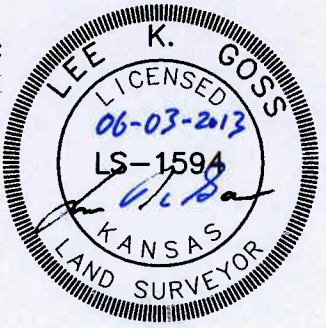
DATUM: NAD-27  
 LAT: 37°11'54.4"N  
 LONG: 97°55'23.1"W  
 LAT: 37.198449905° N  
 LONG: 97.923087563° W  
 STATE PLANE  
 COORDINATES: (US Feet)  
 ZONE: KANSAS SOUTH  
 X: 2168043  
 Y: 194152

Date of Drawing: May. 31, 2013  
 Invoice # 202052 Date Staked: May. 30, 2013

LC

**CERTIFICATE:**

I, \_\_\_\_\_ 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.



This information was gathered with a GPS receiver with ±1.0' accuracy.

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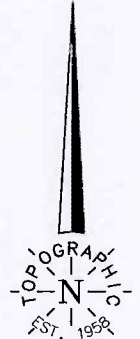
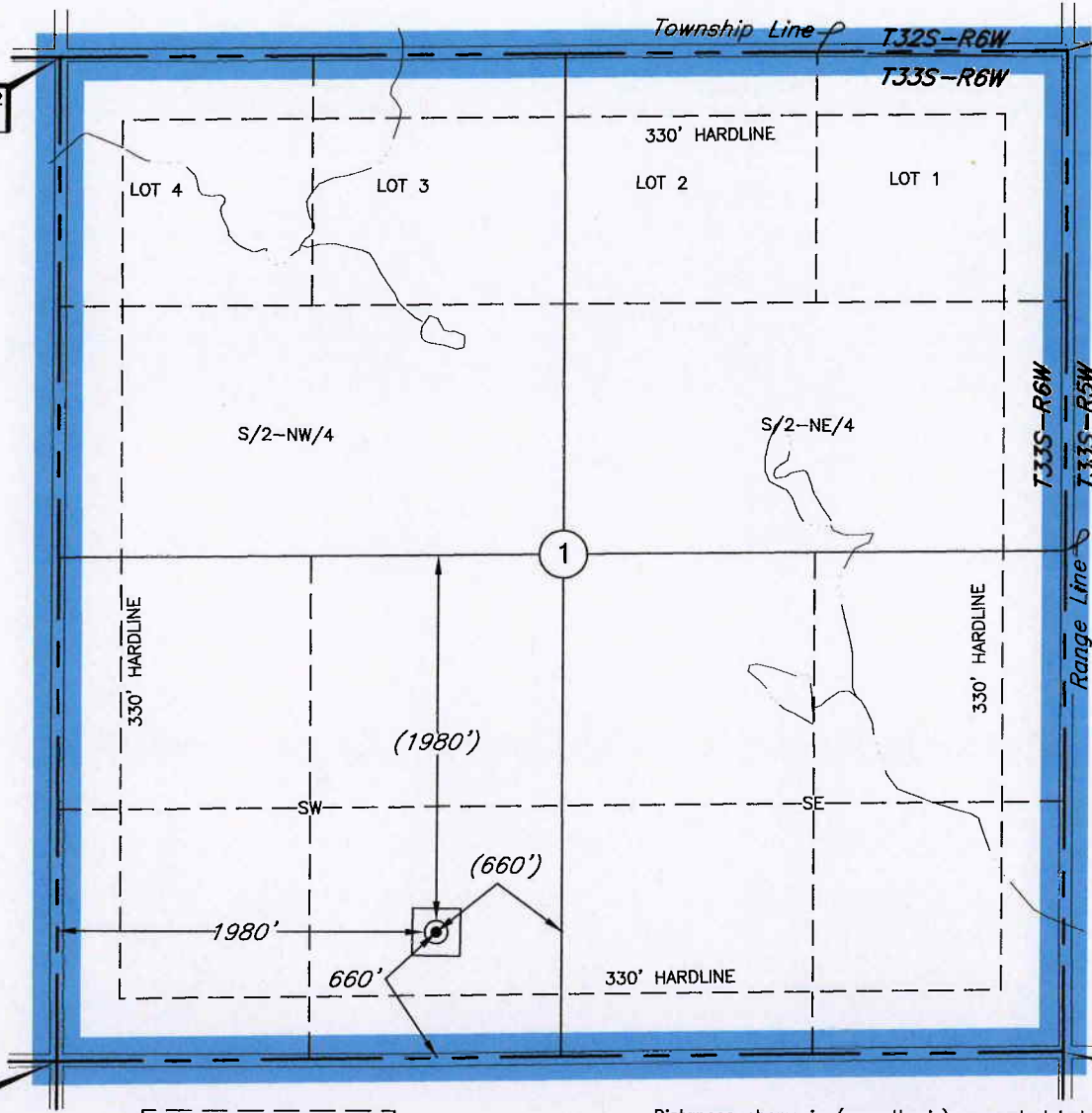
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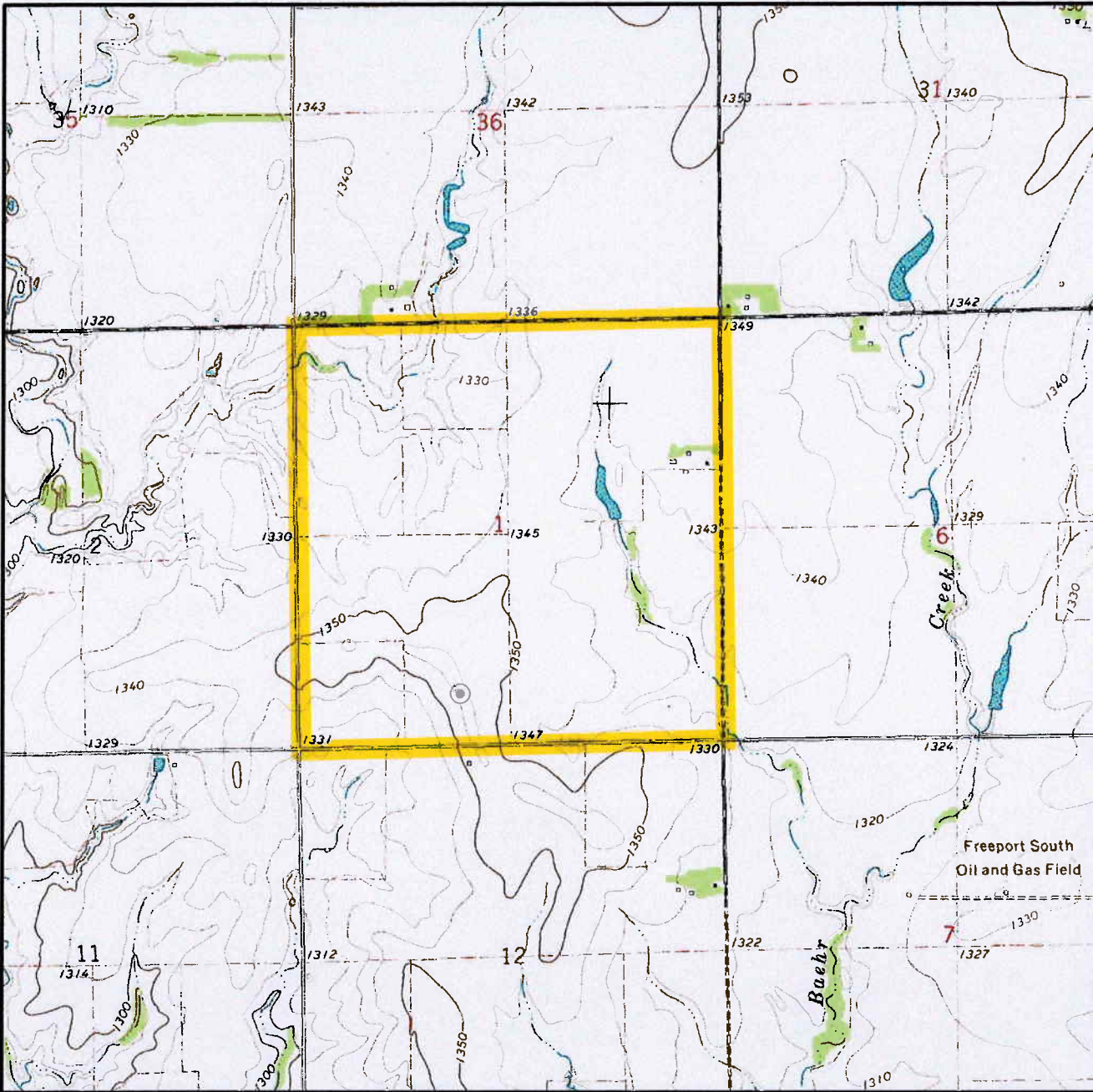
I, \_\_\_\_\_ a Kansas Licensed Land Surveyor and an authorized agent of Topographic Land Surveyors, do hereby certify that the above described well location was surveyed and staked on the ground as shown herein.



# TOPOGRAPHIC LAND SURVEYORS

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. 1 Twp. 33S Rng. 6W

County HARPER State KS

Operator SANDRIDGE EXPLORATION & PRODUCTION, LLC Contour Interval 10'

Description 660'FSL-1980'FWL

Lease VOGEL 3306 1-1

Elevation 1357' Gr. at Stake

U.S.G.S. Topographic  
 Quadrangle Map BLUFF CITY NW, KS

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

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.

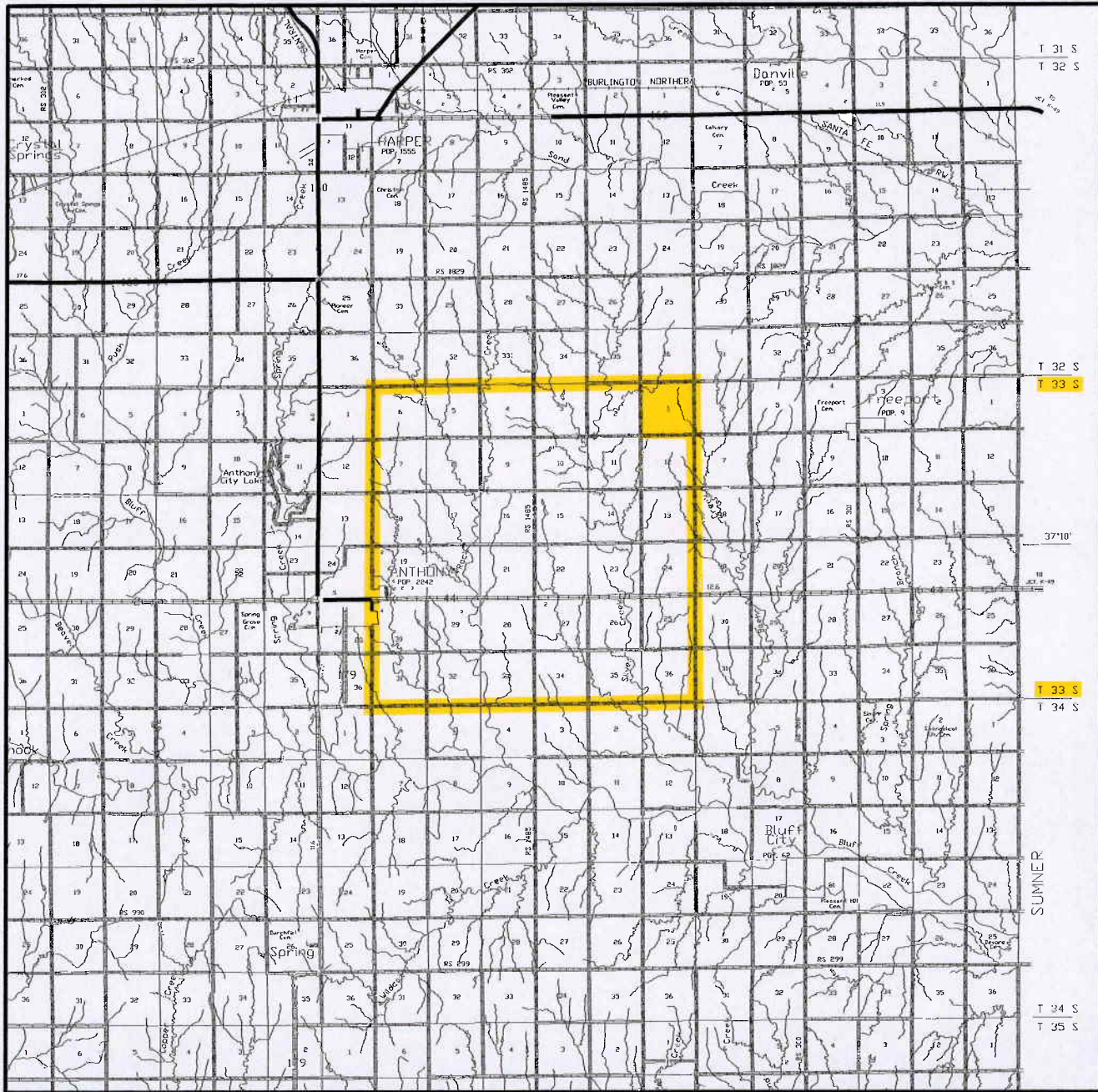
**TOPOGRAPHIC**  
 SURVEYING • MAPPING • GIS • GPS  
**LAND SURVEYORS**

May. 30, 2013

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## VICINITY MAP



Scale: 1" = 3 Miles

Sec. 1 Twp. 33S Rng. 6W

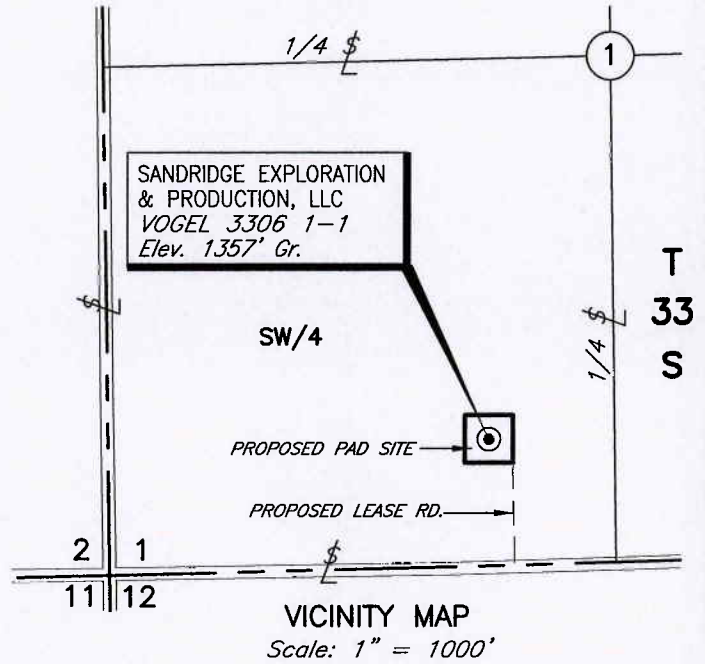
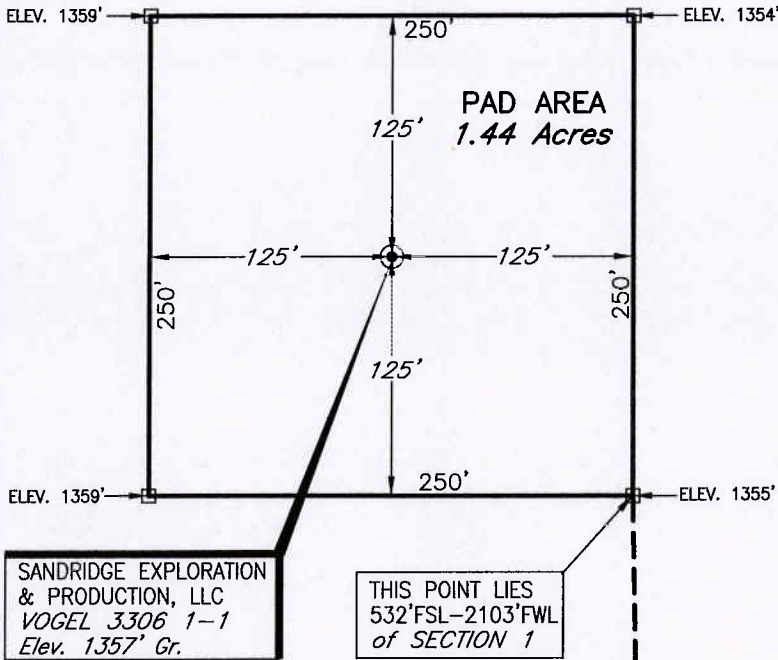
County HARPER State KS

Operator SANDRIDGE EXPLORATION & PRODUCTION, LLC

**TOPOGRAPHIC**  
SURVEYING • MAPPING • GIS • GPS  
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T 33 S - R 6 W

R 6 W



SECTION 1  
SW/4

TOTAL LEASE ROAD  
IN SW/4 OF SEC. 1  
520' OR 31.5 RODS

PROPOSED LEASE ROAD

PLAT SHOWING  
PROPOSED PAD AND LEASE ROAD  
IN THE SW/4 OF SECTION 1,  
T33S - R6W,  
HARPER COUNTY, KANSAS



GRID  
NAD-27  
KANSAS SOUTH  
US FEET  
3.280833 Ft. = 1 Meter  
0' 50' 100'  
SCALE:  
1" = 100'

S 01°04' E  
520'

THIS POINT LIES  
12' FSL-2105' FWL  
of SECTION 1

ELEV. 1356'

This plat was prepared exclusively for  
**SANDRIDGE EXPLORATION & PRODUCTION, LLC**  
OKLAHOMA CITY, OKLAHOMA

NO.	REVISION	DATE	BY
SURV. BY: RL 5/30/2013			
DRAWN BY: LC			
APPROVED BY: LG			

and may not be relied upon by any other entity without the written consent of Topographic Land Surveyors of Oklahoma.  
SURVEYING AND MAPPING BY  
**TOPOGRAPHIC LAND SURVEYORS**  
6709 N. Classen, Okla. City, OK. 73116 (405) 843-4847  
Certificate of Authorization No. LS-99, Exp. December 31, 2013

SCALE:	1"=100'
DATE:	6/3/2013
FILE:	L4186A.DWG
DRAWING NUMBER:	119024-L4-186-A
SHEET	1 OF 1