

**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

SUMNER

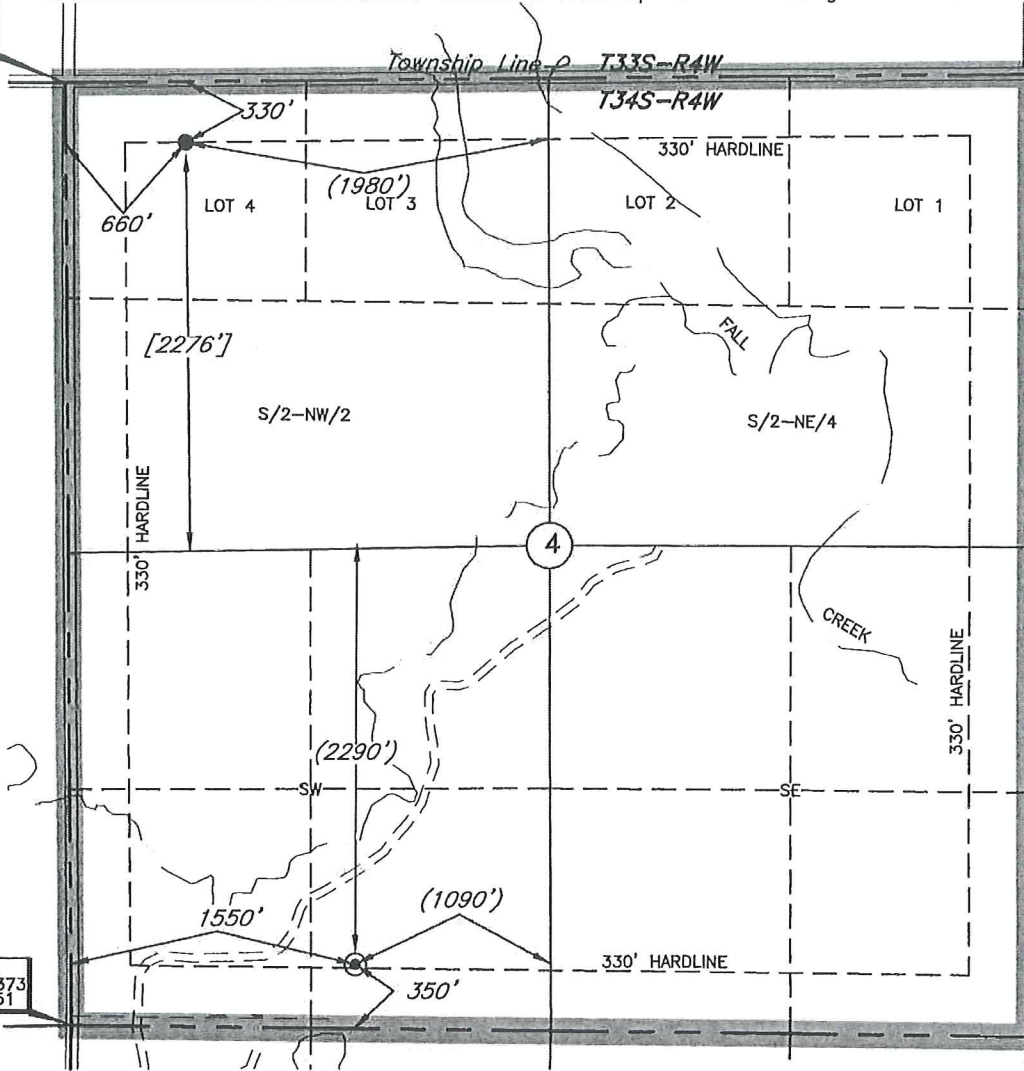
County, Kansas

350'FSL-1550'FWL Section 4 Township 34S Range 4W P.M.

IRON ROD  
 X= 2214241  
 Y= 167787

I.R. W/CAP  
 X= 2219511  
 Y= 167900

Bottom Hole  
 330'FNL-660'FWL  
 NAD-27 (US Feet)  
 37°07'27.4" N  
 97°45'48.5" W  
 37.124267037° N  
 97.762919503° W  
 X=2214910  
 Y=167471



GRID  
 NAD-27  
 Kansas South  
 US Feet

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

RR SPIKE  
 X= 2214373  
 Y= 162651

I.R. W/CAP  
 X= 2219600  
 Y= 162664

Bottom Hole Information Provided  
 by Operator Listed, NQI 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 NQI 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.

Operator: SANDRIDGE EXPLORATION & PRODUCTION, LLC

Lease Name: BARBARA 3404

Well No.: 1-4H

**ELEVATION:**

1217' Gr. at Stake

Topography & Vegetation Loc. fell in sloped plowed field

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

Best Accessibility to Location From West off county road

Distance & Direction  
 from Hwy Jct or Town From the Jct. of St. Hwy. 44 E-W & Argonia Blacktop road, go ±3  
 miles South to the SW Cor. of Sec. 4-T34S-R4W

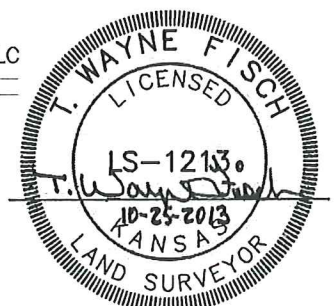
DATUM: NAD-27  
 LAT: 37°06'43.1"N  
 LONG: 97°45'34.5"W  
 LAT: 37.111980039° N  
 LONG: 97.759594547° W  
 STATE PLANE  
 COORDINATES: (US Feet)  
 ZONE: KS SOUTH  
 X: 2215915  
 Y: 163005

Date of Drawing: Oct. 24, 2013  
 Invoice # 210124 Date Staked: Oct. 23, 2013

LC

**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.



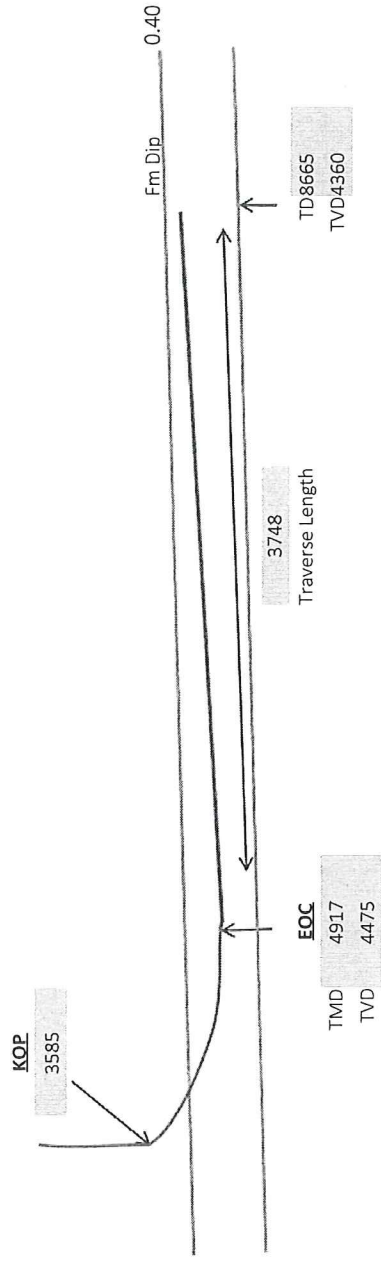
This information was gathered with a GPS receiver with ±1 foot Horiz./Vert. accuracy

Target Line	4,500
TVD @ 0' VS	91.75
INC	

	SHL	BHL
X NAD 27	2,215,915	2,214,910
Y NAD 27	163,005	167,471

Total VS	4,577.68
EOC (MD)	4,917.03
EOC (TVD)	4,474.60
KOP	3,585.25
Azimuth	347.32
Traverse Length	3,748.05
TD (MD)	8,665.08
TVD @ TD	4,360.14
TVD displacement f/ EOC to TD	114.46

South to North (~000 Azimuth)



**Operator**

SandRidge Energy

**Well Name and Number**

Barbara 3404 1-4H

**Well Surface Location**

4-T34S-R4W; 350' FSL & 1550' FWL

**Well Bottom Hole Location**

4-T34S-R4W; 330' FNL & 660' FWL

**County and State**

Sumner County, Kansas

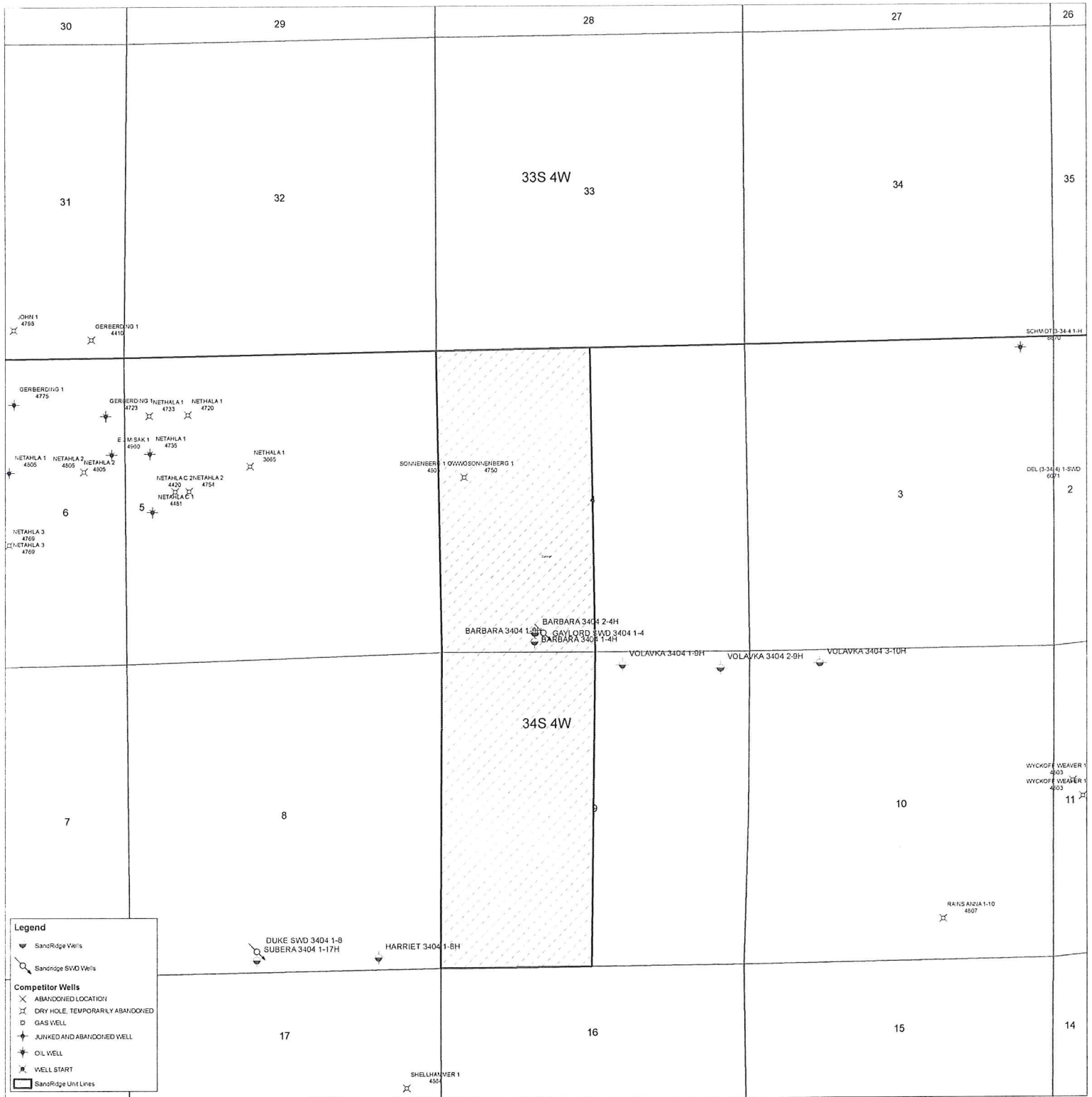
**Barbara 3404 1-4H**  
**Lease Information Sheet**

**Unit Description:**

W2 of Section 4-T34S-R04W and the  
W2 of Section 9-T34S-R04W

**Surface Owner:**

SandRidge Exploration and Production, LLC  
123 Robert S Kerr Avenue  
Oklahoma City, OK 73102



T 34 S - R 4 W

R 4 W

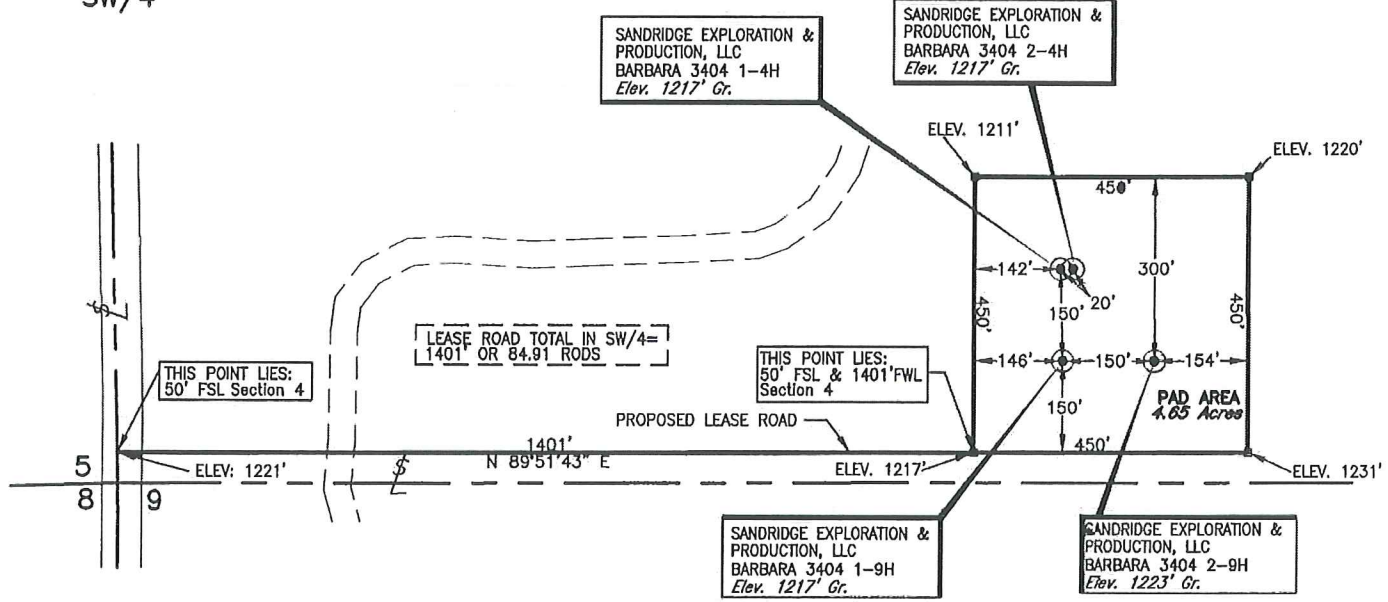
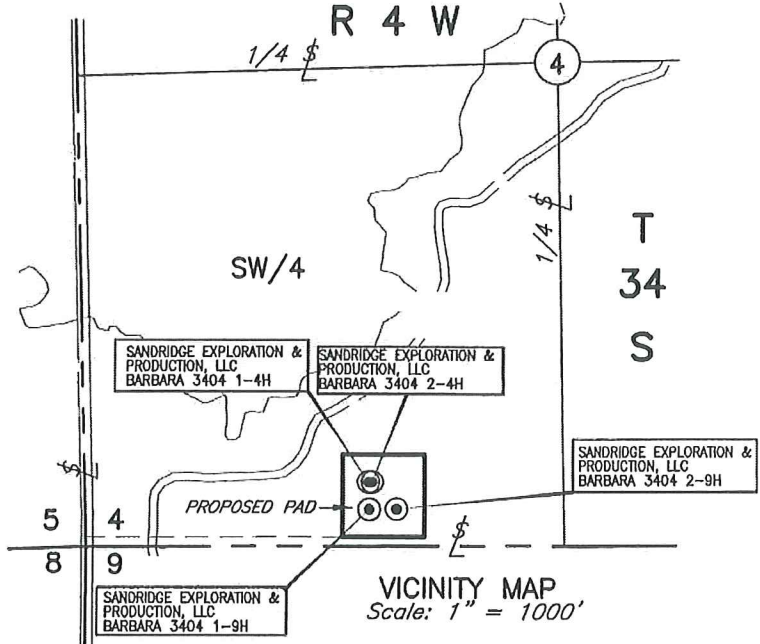
T 34 S

SW/4



GRID  
NAD-27  
KANSAS SOUTH  
US FEET  
3.280833 Ft. = 1 Meter  
0' 150' 300'  
SCALE:  
1" = 300'

SECTION 4  
SW/4



PLAT SHOWING  
PROPOSED PAD AREA & LEASE ROAD  
IN THE SW/4 OF SECTION 4,  
T34S - R4W,  
SUMNER COUNTY, KANSAS

NO.	REVISION	DATE	BY
SURV. BY:		RL 10-23-13	
DRAWN BY:		LC	
APPROVED BY:		TWF	

This plat was prepared exclusively for  
**SANDRIDGE EXPLORATION & PRODUCTION, LLC**  
OKLAHOMA CITY, OKLAHOMA  
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"=300'
DATE:	10/25/2013
FILE:	L4256A.DWG
DRAWING NUMBER:	119024-L4-256-A
SHEET	1 OF 1