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 p \_\_35S \_\_ Range 250'FSL-1980'FEL Section \_ 16 \_ Township 7W\_P.M. X 2124526 Y 129671 X 2119271 Y 129605 (660') 330 330' HARDLINE 1980'-BOTTOM HOLE 330'FNL-1980'FEL 330 FNL-1980 FEL

NAD 27

N 37 01' 15.8"

W 98' 04' 49.0"

Lot: 37.021054298'N

Long: 98.080271987'W

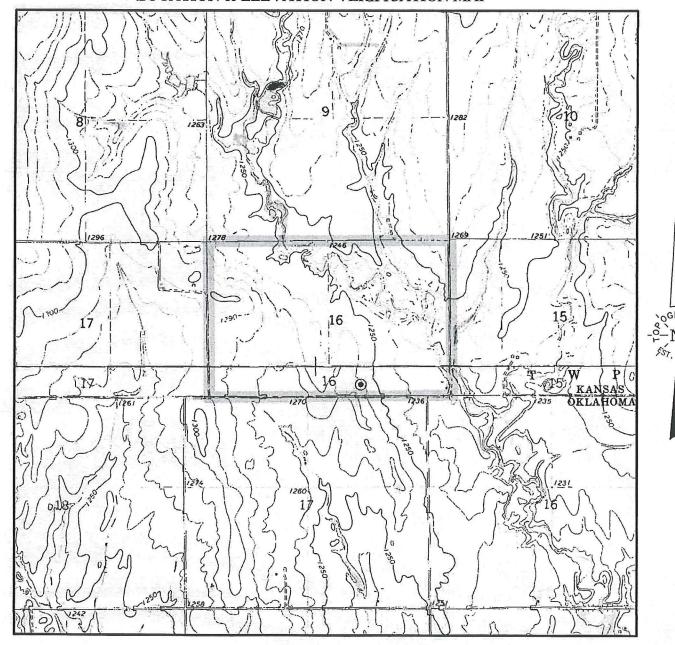
X= 2122550

Y= 129316 (2310) 9 HARDLINE 330 GRID Scale: 1"= 1000' X 2119305 Y 124340 X 2124593 Y 124377 HARDLINE 330, (660') 452' XX LOT, 1 330' HARDLINE State Line-P Township Line 1355-R7W OKLAHOMA T29N-RBW X 2124650 Y 121037 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 show in Ibrackets] are based on GLO (General Land Office) distances and have NOT been measured on the ground 2000 1000 Operator: SANDRIDGE ENERGY, INC. **ELEVATION:** Lease Name: RED FERN Well No.: 2-16H 1264' Gr. at Stake Topography & Vegetation Loc. fell in sloped terraced wheat field, ±185' North of New E-W Pipeline Reference Stakes or Alternate Location Good Drill Site? \_ Stakes Set None From South off state line road Best Accessibility to Location -Distance & Direction From the Jct. of St. Hwy. 179 North & State Line E-W, go ±1.5 from Hwy Jct or Town miles West on State Line to the SE Cor. of Sec. 16-T35S-R7W Date of Drawing: Mar. 23, 2012 Invoice # 181260 Date Staked: Mar. 22, 2012 IS NAD-27 LAT: 36'59'56.2"N LONG: 98'04'48.0"W **CERTIFICATE:** LAT: <u>36.998950071\*N</u> LONG: <u>98.079998866\*W</u> 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 gathered with with Sub-Me STATE PLANE COORDINATES: (US Feet) ZONE: KS SOUTH as shown herein. NO SURVE X: 2122666 1213 Y: 121268 Kansas Lic. No.

## **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



\_\_\_ Twp.\_\_\_ 35S **7W** \_Rng.\_ County HARPER State Operator SANDRIDGE ENERGY, INC. Description 250'FSL-1980'FEL Lease RED FERN 2-16H Elevation\_ 1264' Gr. at Stake U.S.G.S. Topographic

SPRING, KS

Quadrangle Map

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.



SURVEYING . MAPPING . GIS . GPS

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## VICINITY MAP

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Scale: 1" = 3 Miles

Sec	16	Twp	35S	Rng	7W
County_		HARPER		_State	KS
Operato	r	SANDRIDGE	ENE	RGY, INC	



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Certificate of Authorization No. LS-99, Exp. Dec. 31, 2013 HARPER County, Kansas 35S Range 250'FSL-1980'FEL 16 7W\_P.M. Section Township. Range Scale: 1"= 1000' 129N-R8 Bottom Hole growngaon Provided by Operator Listed, NOT Surveyed. Corner Coordinates are Taken from Points Surveyed in the Field. shown in (parenthesis) are calculated based Quarter Section being 2640 feet, those show ets] are based on GLO (General Land Office) and have <u>NOT</u> been measured on the groun 1000 2000 Operator: SANDRIDGE ENERGY, INC **ELEVATION:** Well No.: 2-16H 1264' Gr. at Stake

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DATUM: <u>NAD-27</u> LAT: <u>36'59'56.2"N</u>

**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 T. Wayne Fisch as shown herein.

\_\_1213 Kansas Lic. No.

was receive surocy. LONG: 98'04'48.0"W LAT: 36.998950071'N LONG: 98.079998866'W STATE PLANE COORDINATES: (US Feet) ZONE: KS SOUTH 2122666 121268

GRID

