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 entrances County, Kansas 200'FNL-1980'FEL Section _ Range 7___Township 18/01/51 -(6601) 1980 X 1728232 Y 256387 X 1733294 Y 256384 LOT 1 E/2-NW/4 (2440') LOT 2 557 1958 330'-HARDLINE LOT 3 E/2-SW/4 7315-7315 (2310') **GRID** 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 Scale: = 1000' LOT 4 1980 X 1733173 Y 251072 X 1728097 Y 251087 3.30 (660') 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 $\underline{\rm NOI}$ been measured on the ground. Operator: SANDRIDGE ENERGY, INC. **ELEVATION:** Lease Name: MURPHY Well No.: 1-7H 2096' Gr. at Stake Topography & Vegetation <u>Loc. fell in sloped</u> natural pasture. Reference Stakes or Alternate Location Stakes Set __None Good Drill Site? ___ From North and West on trail. Best Accessibility to Location -Distance & Direction From Jct. US Hwy. 183 and US Hwy. 160 East, North of Coldwater, KS, go ±7.0 mi. North from Hwy Jct or Town 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 information was I with a GPS receiver aub-Meter accuracy. _ Date Staked: Dec. 29, 2011 IS Invoice # 177505 NAD-27 NAD-27 NAD-27 LAT: 37'21'59.7"N LONG: 99'25'28.3"W **CERTIFICATE:** LAT: 37.366590198°N T. Wayne Fisch __a Kansas Licensed Land S-121/3 LONG: 99.424542400°W Surveyor and an authorized agent of Topographic Land Surveyors, do hereby certify that the above described STATE PLANE COORDINATES: (US Feet) well location was surveyed and staked on the ground ZONE: KS SOUTH as shown herein. X: 1731308 Oklahoma Lic. No. <u>1213</u> 256185

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Certificate of Authorization No. LS-99, Exp. Dec. 31, 2011 COMANCHE County, Kansas 200'FNL-1980'FEL 19W_P.M. Township 315 Range Section (660') X 1733294 Y 256384 LOT 1 LOT 2 -6-N-5-157 1958 LOT 3 (2310') **GRID** Scale: 1"= 1000' LOT 4 X 1733173 X 1728097 Y 251087 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. **ELEVATION:** Lease Name: MURPHY Well No.: __1-7H 2096' Gr. at Stake Topography & Vegetation Loc. fell in sloped natural pasture. Reference Stakes or Alternate Location Good Drill Site? _ Stakes Set _ From North and West on trail. Best Accessibility to Location _ 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 guarter 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 **CERTIFICATE:** LAT: __37.366590198'N T. Wayne Fisch _a Kansas Licensed Land LONG: 99.424542400°W -121/3 Surveyor and an authorized agent of Topographic Land STATE PLANE Surveyors, do hereby certify that the above described COORDINATES: (US Feet) well location was surveyed and staked on the ground

ZONE: KS SOUTH

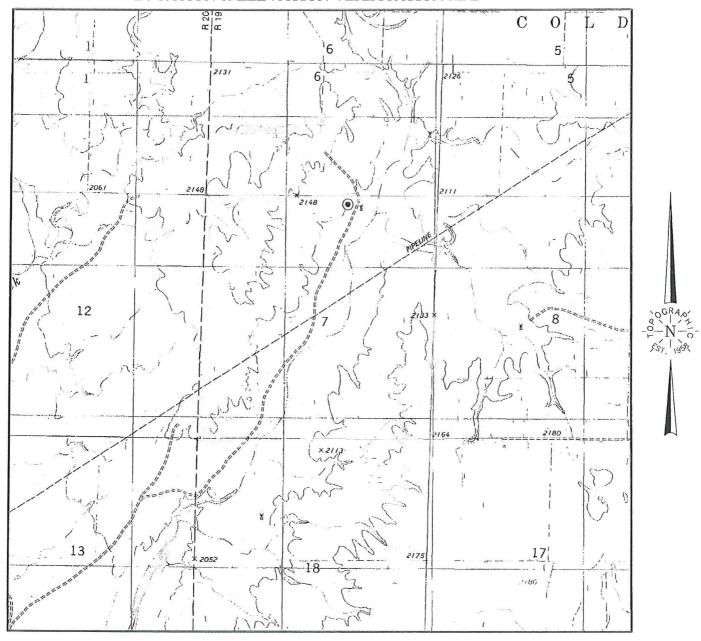
1731308 256185 as shown herein.

Oklahoma Lic. No. <u>1213</u>

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. 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.

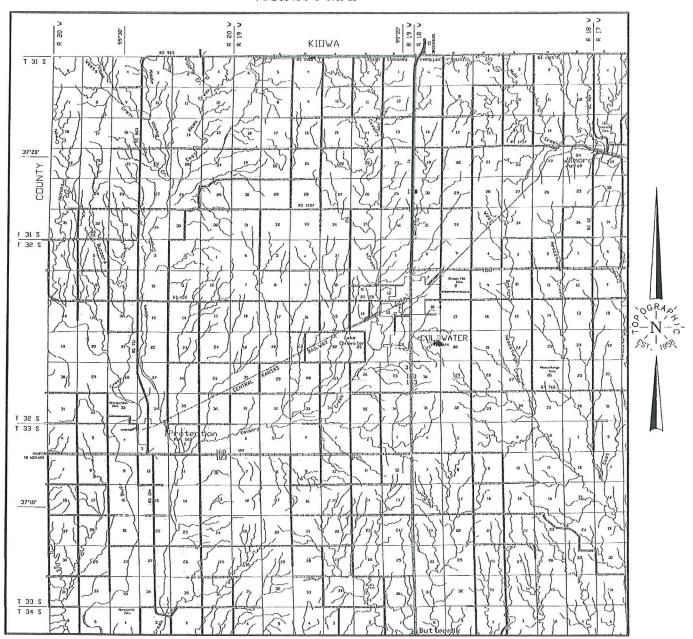


LAND SURVEYORS

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VICINITY MAP



Scale: 1'' = 3 Miles

Sec7	Twp31	SRng	19W	
County	COMANCHE	State	KS	
Operator	SANDRIDGE E	NERGY. INC	· ·	



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Certificate of Authorization No. LS-99, Exp. Dec. 31, 2011 COMANCHE _ County, Kansas 200'FNL-1980'FEL Section Township 31S (660')-(6) 1980 X 1728232 Y 256387 X 1733294 Y 256384 LOT 1 E/2-NW/4 (2440') LOT 2 $-N-\tilde{c}$ 157 1958 7315-R20W LOT 3 E/2-SW/4 (2310') **GRID** BOTTOM HOLE Scale: 1"= 1000' NAD 27 N 37' 21' 12.5" N 3/ 21 12.5 W 99' 25' 29.1" Lat: 37.353468126 Long: 99.424750967 X =1731200 Y =251408 LOT 4 1980' X 1728097 Y 251087 X 1733173 Y 251072 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 $\underline{\rm NOI}$ been measured on the ground. Operator: SANDRIDGE ENERGY, INC. **ELEVATION:** Lease Name: __MURPHY Well No.: __1-7H 2096' Gr. at Stake Topography & Vegetation _ Loc. fell in sloped natural pasture. Reference Stakes or Alternate Location Good Drill Site? __ Stakes Set None From North and West on trail. Best Accessibility to Location _ 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 | Dec. 4 177505 | Date Staked: Dec. 29, 2011 | IS **CERTIFICATE:**

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

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.

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