

OKLAHOMA CORPORATION COMMISSION
OIL & GAS CONSERVATION DIVISION
P.O. BOX 52000
OKLAHOMA CITY, OK 73152-2000
(Rule 165:10-3-1)

API NUMBER: 003 23326

Approval Date: 07/31/2018

Expiration Date: 01/31/2019

Horizontal Hole Oil & Gas

PERMIT TO DRILL

WELL LOCATION: Sec: 30 Twp: 28N Rge: 12W County: ALFALFA

SPOT LOCATION: ☐ SE ☐ SW ☐ SW ☐ SW FEET FROM QUARTER: FROM SOUTH FROM WEST

SECTION LINES: 210 510

Lease Name: CUMMINGS 2812 Well No: 3-30H Well will be 210 feet from nearest unit or lease boundary.

Operator Name: SANDRIDGE EXPLORATION & PRODUCTION LLC

Telephone: 4054295610

OTC/OCC Number: 22281 0

SANDRIDGE EXPLORATION & PRODUCTION LLC
123 ROBERT S KERR AVE STE 1702
OKLAHOMA CITY, OK 73102-6406

SALLY ANN CUMMINGS & DANIEL BENNETT W/H
4202 QUANDERS PROMISE DR.
BOWIE MD 20720

Formation(s) (Permit Valid for Listed Formations Only):

Name	Depth	Name	Depth
1 MISSISSIPPIAN	5192	6	
2		7	
3		8	
4		9	
5		10	

Spacing Orders: 631129

Location Exception Orders: 679936

Increased Density Orders: 679935

Pending CD Numbers:

Special Orders:

Total Depth: 9716

Ground Elevation: 1279

Surface Casing: 1500

Depth to base of Treatable Water-Bearing FM: 440

Under Federal Jurisdiction: No

Fresh Water Supply Well Drilled: No

Surface Water used to Drill: Yes

PIT 1 INFORMATION

Approved Method for disposal of Drilling Fluids:

Type of Pit System: CLOSED Closed System Means Steel Pits

Type of Mud System: WATER BASED

Chlorides Max: 10000 Average: 5000

Is depth to top of ground water greater than 10ft below base of pit? Y

Within 1 mile of municipal water well? N

Wellhead Protection Area? N

Pit is located in a Hydrologically Sensitive Area.

Category of Pit: C

Liner not required for Category: C

Pit Location is AP/TE DEPOSIT

Pit Location Formation: TERRACE

D. One time land application -- (REQUIRES PERMIT) PERMIT NO: 18-34844
H. CLOSED SYSTEM=STEEL PITS PER OPERATOR REQUEST

This permit does not address the right of entry or settlement of surface damages.
The duration of this permit is SIX MONTHS, except as otherwise provided by Rule 165: 10-3-1.
Rule 165: 10-3-4 (c) (7) (e) - The Operator shall give 24 Hours notice by telephone to the appropriate District Office of the Conservation Division as to when Surface Casing will be run.

HORIZONTAL HOLE 1

Sec 30 Twp 28N Rge 12W County ALFALFA

Spot Location of End Point: N2 N2 NW NW

Feet From: NORTH 1/4 Section Line: 150

Feet From: WEST 1/4 Section Line: 660

Depth of Deviation: 4489

Radius of Turn: 382

Direction: 2

Total Length: 4626

Measured Total Depth: 9716

True Vertical Depth: 5192

End Point Location from Lease,
Unit, or Property Line: 150

Notes:

Category

Description

DEEP SURFACE CASING

7/5/2018 - G71 - APPROVED; NOTIFY OCC FIELD INSPECTOR IMMEDIATELY OF ANY LOSS OF CIRCULATION OR FAILURE TO CIRCULATE CEMENT TO SURFACE ON ANY CONDUCTOR OR SURFACE CASING

HYDRAULIC FRACTURING

7/5/2018 - G71 - OCC 165:10-3-10 REQUIRES:

1) PRIOR TO COMMENCEMENT OF HYDRAULIC FRACTURING OPERATIONS FOR HORIZONTAL WELLS, NOTICE GIVEN FIVE BUSINESS DAYS IN ADVANCE TO OFFSET OPERATORS WITH WELLS COMPLETED IN THE SAME COMMON SOURCE OF SUPPLY WITHIN 1/2 MILE;

2) WITH NOTICE ALSO GIVEN 48 HOURS IN ADVANCE OF HYDRAULIC FRACTURING ALL WELLS TO BOTH THE OCC CENTRAL OFFICE AND LOCAL DISTRICT OFFICES, USING THE "FRAC NOTICE FORM" FOUND AT THE FOLLOWING LINK: OCCEWEB.COM/OG/OGFORMS.HTML; AND,

3) THE CHEMICAL DISCLOSURE OF HYDRAULIC FRACTURING INGREDIENTS FOR ALL WELLS TO BE REPORTED TO FRACFOCUS WITHIN 60 DAYS AFTER THE CONCLUSION THE HYDRAULIC FRACTURING OPERATIONS, USING THE FOLLOWING LINK: FRACFOCUS.ORG

INCREASED DENSITY - 679935

7/30/2018 - G57 - 30-28N-12W
X631129 MSSP
1 WELL
SANDRIDGE EXPLORATION & PRODUCTION, LLC.
7-3-2018

LOCATION EXCEPTION - 679936

7/30/2018 - G57 - (I.O.) 30-28N-12W
X631129 MSSP
COMPL. INT. NCT 150' FSL, NCT 150' FNL, NCT 560' FWL
SANDRIDGE EXPLORATION & PRODUCTION, LLC.
7-3-2018

SPACING - 631129

7/30/2018 - G57 - (640)(HOR) 30-28N-12W
EST MSSP
POE TO BHL NLT 660' FB
(COEXIST SP. ORDER # 593706 MSSP)

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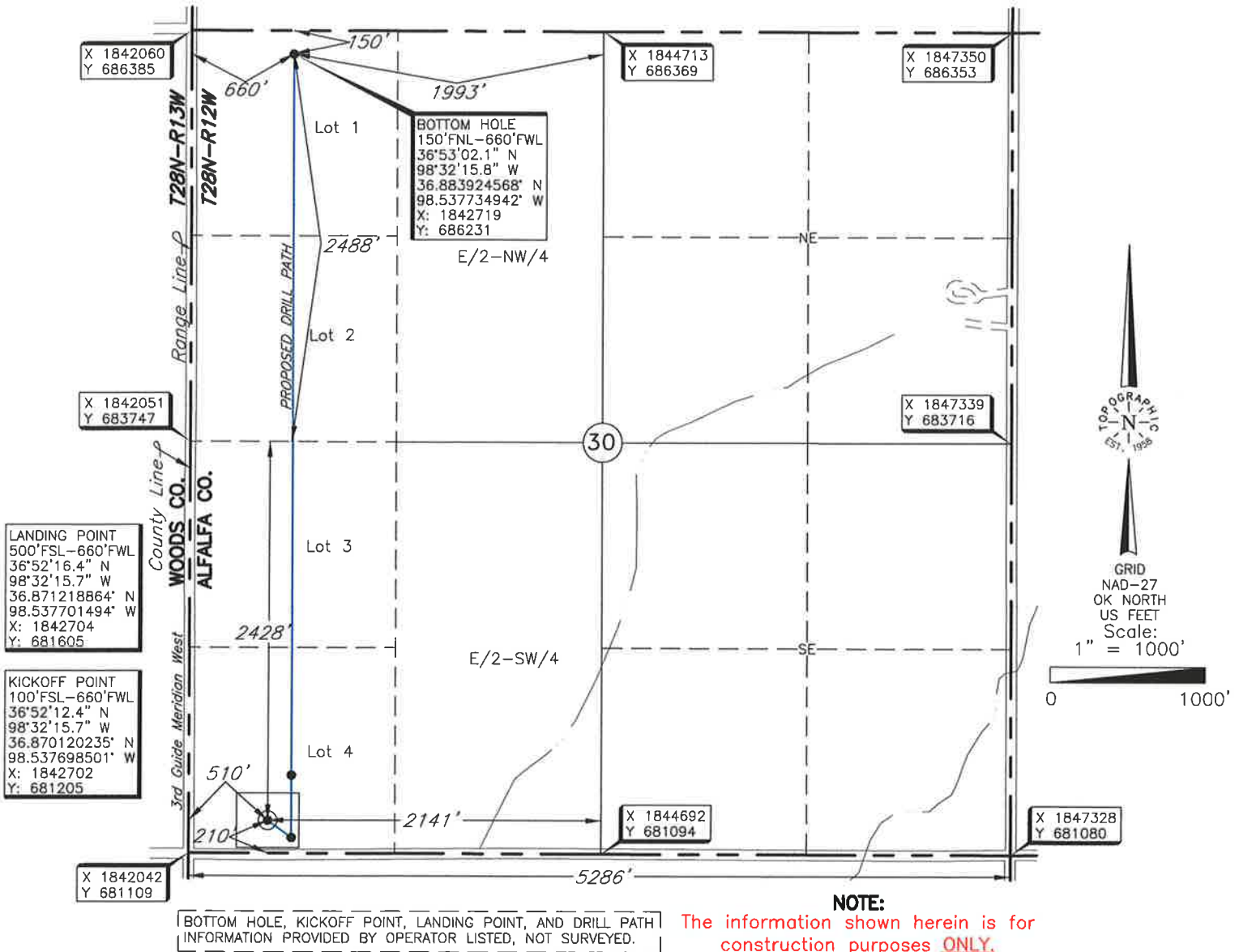
Rule 165: 10-3-4 (c) (7) (e) - The Operator shall give 24 Hours notice by telephone to the appropriate District Office of the Conservation Division as to when Surface Casing will be run.

003 23326 CUMMINGS 2812 3-30H

ALFALFA

County, Oklahoma

210'FSL-510'FWL Section 30 Township 28N Range 12W I.M.



NOTE:

The information shown herein is for construction purposes ONLY.

Operator: SANDRIDGE EXPLORATION & PRODUCTION, LLC

Lease Name: CUMMINGS 2812

Well No.: 3-30H

ELEVATION:

1279' Gr. at Stake

Topography & Vegetation Location fell in sloped wheat field.

Good Drill Site? Yes

Reference Stakes or Alternate Location
Stakes Set None

Best Accessibility to Location From county road south of well location.

Distance & Direction

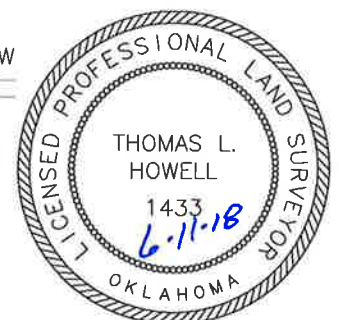
From Hwy Jct or Town From Burlington, Ok, go west ± 5.5 miles on St. Hwy. 11, then ± 2.0 miles south, then ± 1.0 mile west to the Southwest Corner of Section 30, T28N-R12W.

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

DATUM: NAD-27
LAT: 36°52'13.5"N
LONG: 98°32'17.6"W
LAT: 36.870422151° N
LONG: 98.538212275° W
STATE PLANE
COORDINATES: (US Feet)
ZONE: OK NORTH
X: 1842553
Y: 681316

Date of Drawing: June 11, 2018
Invoice # 294728 Date Staked: May 31, 2018 JGW

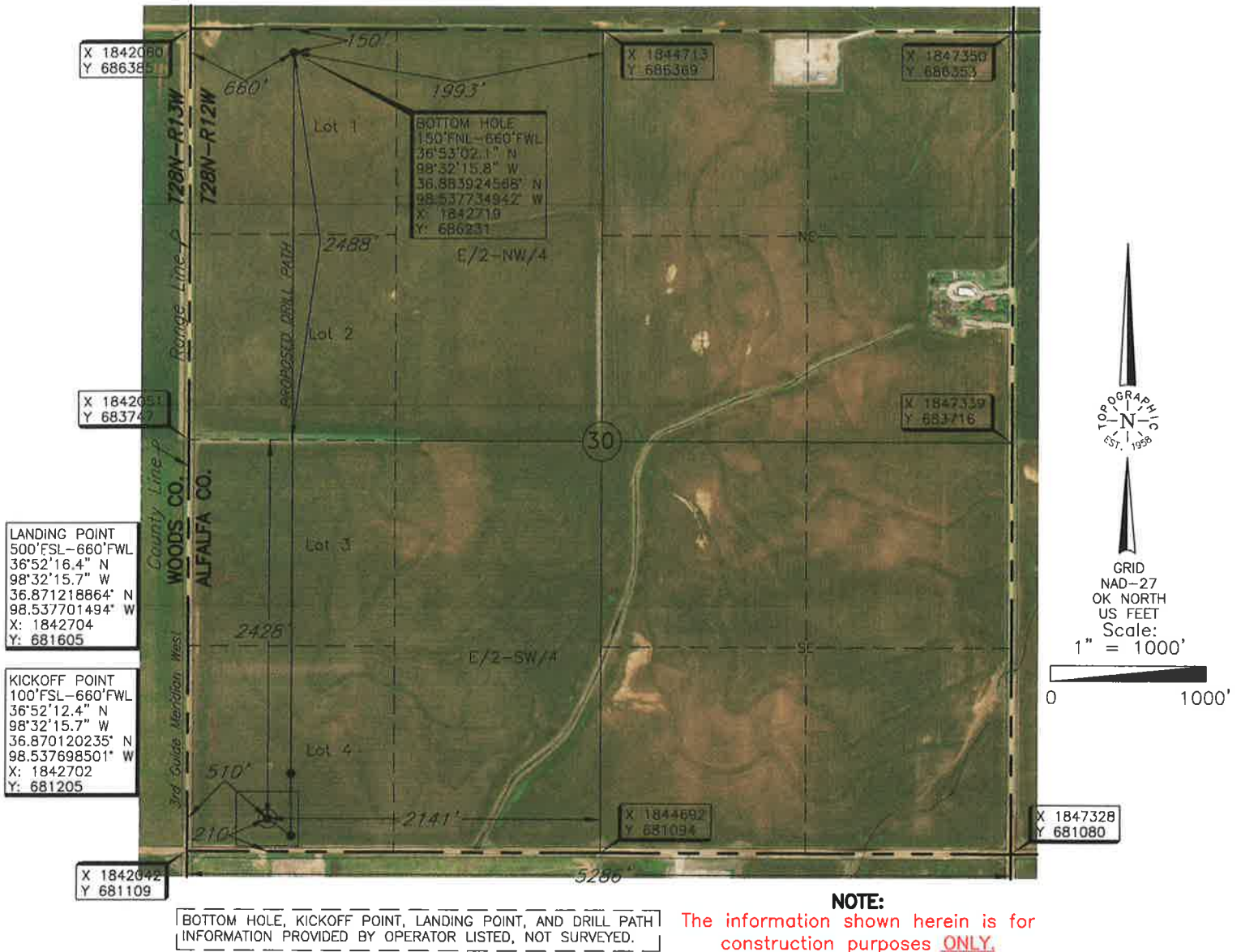
CERTIFICATE:
I, Thomas L. Howell an Oklahoma Licensed Land Surveyor and an authorized agent of Topographic Land Surveyors of Oklahoma, do hereby certify to the information shown herein
Thomas L. Howell
Oklahoma Lic. No. 1433



ALFALFA

County, Oklahoma

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Thomas L. Howell
Oklahoma Lic. No. 1433



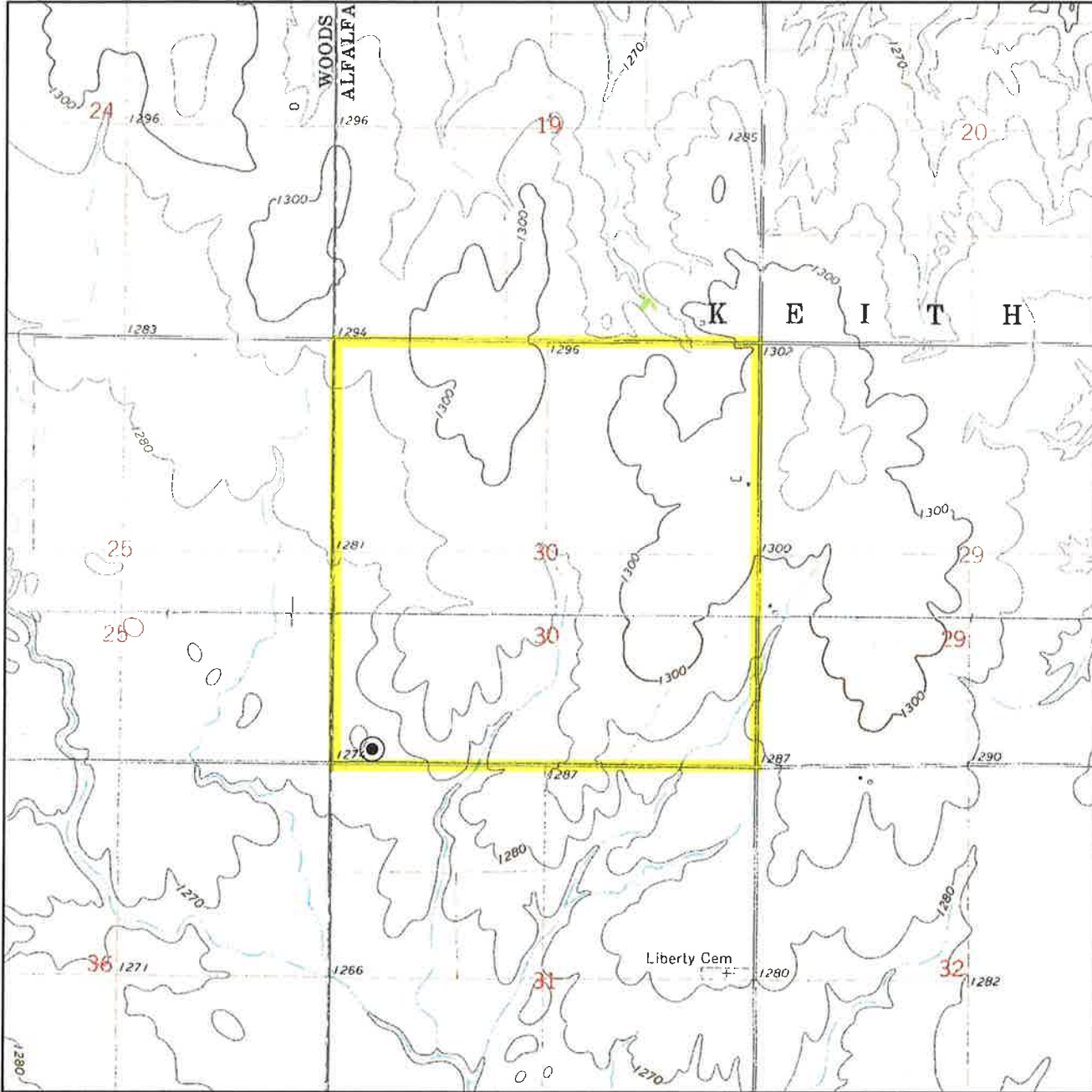
TOPOGRAPHIC LAND SURVEYORS OF OKLAHOMA

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. 30 Twp. 28N Rng. 12W IM

County ALFALFA State OK

Operator SANDRIDGE EXPLORATION & PRODUCTION, LLC

Description 210'FSL-510'FWL

Lease CUMMINGS 2812 3-30H

Elevation 1279' Gr. at Stake

U.S.G.S. Topographic
Quadrangle Map ALVA SE, OK

Above Background Data from
U.S.G.S. Topographic Map

Scale: 1"=2000'

Contour Interval 10'

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
LOYALTY INNOVATION LEGACY

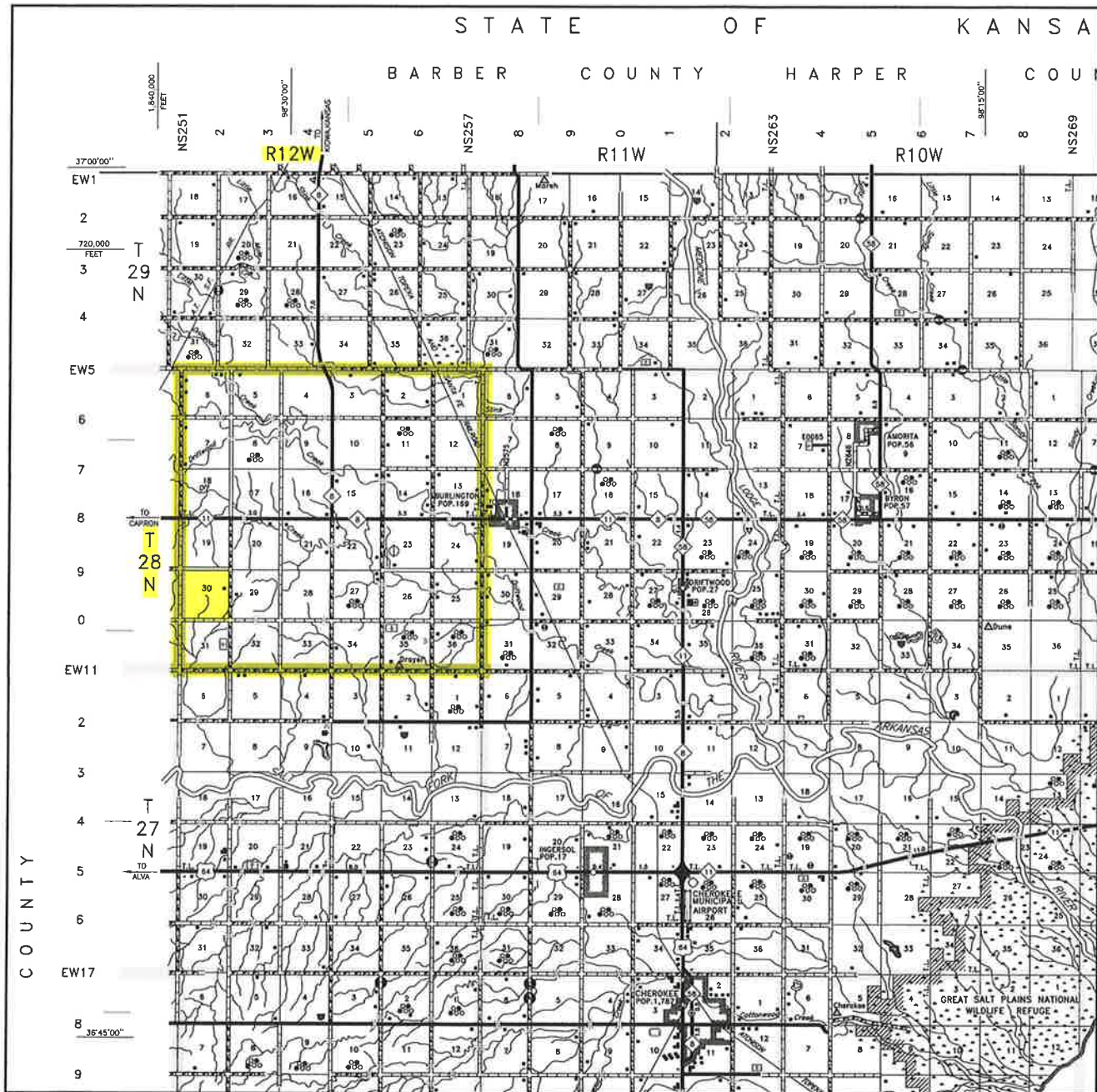
LAND SURVEYORS OF OKLAHOMA

May 31, 2018

TOPOGRAPHIC LAND SURVEYORS OF OKLAHOMA

Surveying and Mapping for the Energy Industry
13800 Wireless Way, Oklahoma City, OK 73134 www.topographic.com
Telephone Numbers: Local (405) 843-4847 Toll Free (800) 654-3219

VICINITY MAP



Scale: 1" = 3 Miles

Sec. 30 Twp. 28N Rng. 12W IM

County ALFALFA State OK

Operator SANDRIDGE EXPLORATION & PRODUCTION, LLC



LAND SURVEYORS OF OKLAHOMA

T 28 N - R 12 W
(INDIAN MERIDIAN)

PLAT SHOWING

PROPOSED PAD AREA IN THE
SW/4 OF SECTION 30, T28N - R12W
ALFALFA COUNTY, OKLAHOMA

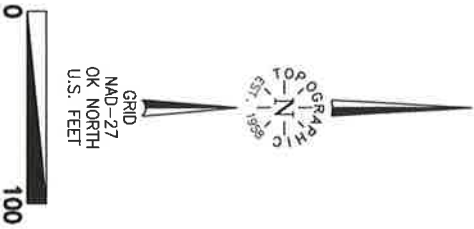


SECTION 30
SW/4

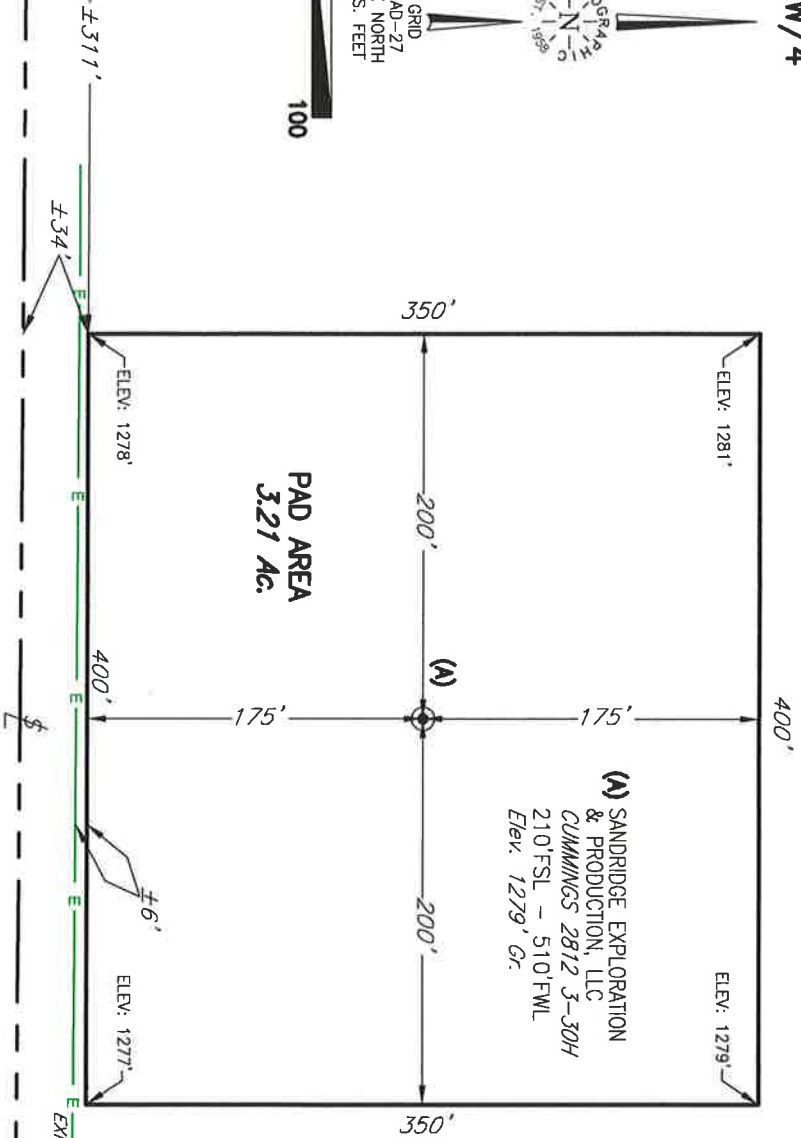
County Line
WOODS CO.
ALFALFA CO.

Range Line
T28N-R13W
T28N-R12W

3rd Guide Meridian West



25
36 31



EXISTING POWERLINE

SANDRIDGE EXPLORATION & PRODUCTION, LLC

This plat was prepared exclusively for
and may not be relied upon by any other entity without the written consent of Topographic Land Surveyors of Oklahoma

TOPOGRAPHIC LAND SURVEYORS OF OKLAHOMA

SURVEYING AND MAPPING BY
15800 Wireless Way, Okla. City, OK 73134 (405) 843-4847
Certificate of Authorization No. 1293 LS

NO. REVISION DATE BY
SUR. BY: RL 5-31-18
DRAWN BY: JGW
APPROVED BY: TH

SCALE: 1" = 100'
DATE: 6-11-18
INVOICE NO.: 294728
FILE NAME: 12323A.DWG
DWG NO.: 119024-12-323-A
SHEET 1 OF 1

NOTE-
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for construction purposes ONLY.