

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

API NUMBER: 093 25205

Approval Date: 02/26/2019  
Expiration Date: 08/26/2020

Horizontal Hole Oil & Gas

PERMIT TO DRILL

WELL LOCATION: Sec: 36 Twp: 21N Rge: 12W County: MAJOR  
SPOT LOCATION:  SE  SW  SE  SW FEET FROM QUARTER: FROM SOUTH FROM WEST  
SECTION LINES: 225 1770

Lease Name: JOHNS FARM 2012 Well No: 1-1H Well will be 225 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

WAYNE & LUCINDA UNRUH  
255674 E CR 53  
FAIRVIEW OK 73737

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

Name	Depth	Name	Depth
1	MISSISSIPPIAN	7622	6
2			7
3			8
4			9
5			10

Spacing Orders: No Spacing

Location Exception Orders:

Increased Density Orders:

Pending CD Numbers: 201807716  
201807715

Special Orders:

Total Depth: 12947 Ground Elevation: 1279 **Surface Casing: 1500** Depth to base of Treatable Water-Bearing FM: 550

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: 18-35440  
H. SEE MEMO

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.

PIT 2 INFORMATION

Type of Pit System: CLOSED Closed System Means Steel Pits

Type of Mud System: OIL BASED

Chlorides Max: 500000 Average: 200000

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

HORIZONTAL HOLE 1

Sec 01 Twp 20N Rge 12W County MAJOR

Spot Location of End Point: S2 S2 S2 SW

Feet From: SOUTH 1/4 Section Line: 150

Feet From: WEST 1/4 Section Line: 1320

Depth of Deviation: 7197

Radius of Turn: 382

Direction: 186

Total Length: 5150

Measured Total Depth: 12947

True Vertical Depth: 7760

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

Notes:

Category

Description

DEEP SURFACE CASING

11/2/2018 - GA8 - 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

11/2/2018 - GA8 - 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](http://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](http://FRACFOCUS.ORG)

INTERMEDIATE CASING

1/10/2019 - GA8 - DUE TO THE KNOWN POTENTIAL RISK OF ENCOUNTERING AN OVER-PRESSURED ZONE IN THE MORROW SERIES IN THIS AREA, THE TECHNICAL MANAGER RECOMMENDS SETTING AN INTERMEDIATE STRING OF CASING IMMEDIATELY ABOVE THE MORROW SERIES

MEMO

11/2/2018 - GA8 - PITS 1 & 2 - CLOSED SYSTEM=STEEL PITS PER OPERATOR REQUEST, PIT 2 - OBM RETURNED TO VENDOR, CUTTINGS PERMITTED PER DISTRICT

This permit does not address the right of entry or settlement of surface damages.

093 25205 JOHNS FARM 2012 1-1H

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.

Category	Description
PENDING CD - 201807715	1/10/2019 - GA8 - (640)(HOR) 1-20N-12W EXT 682331 MSSP (COEXIST SP. ORDER #157674 MSSLM; 227510 MSSSD; 46580 UNCCR; 248236 MNNG SE4; 418354 MNNG W2 NW4) REC 1/22/2019 (MILLER)
PENDING CD - 201807716	1/10/2019 - GA8 - (I.O.) 1-20N-12W X201807715 MSSP X165:10-3-28(C)(2)(B) MAY BE CLOSER THAN 600' TO EXISTING/PROPOSED WELL COMPL. INT. NCT 150' FSL, NCT 150' FNL, NCT 330' FWL REC 1/22/2019 (MILLER)

This permit does not address the right of entry or settlement of surface damages.  
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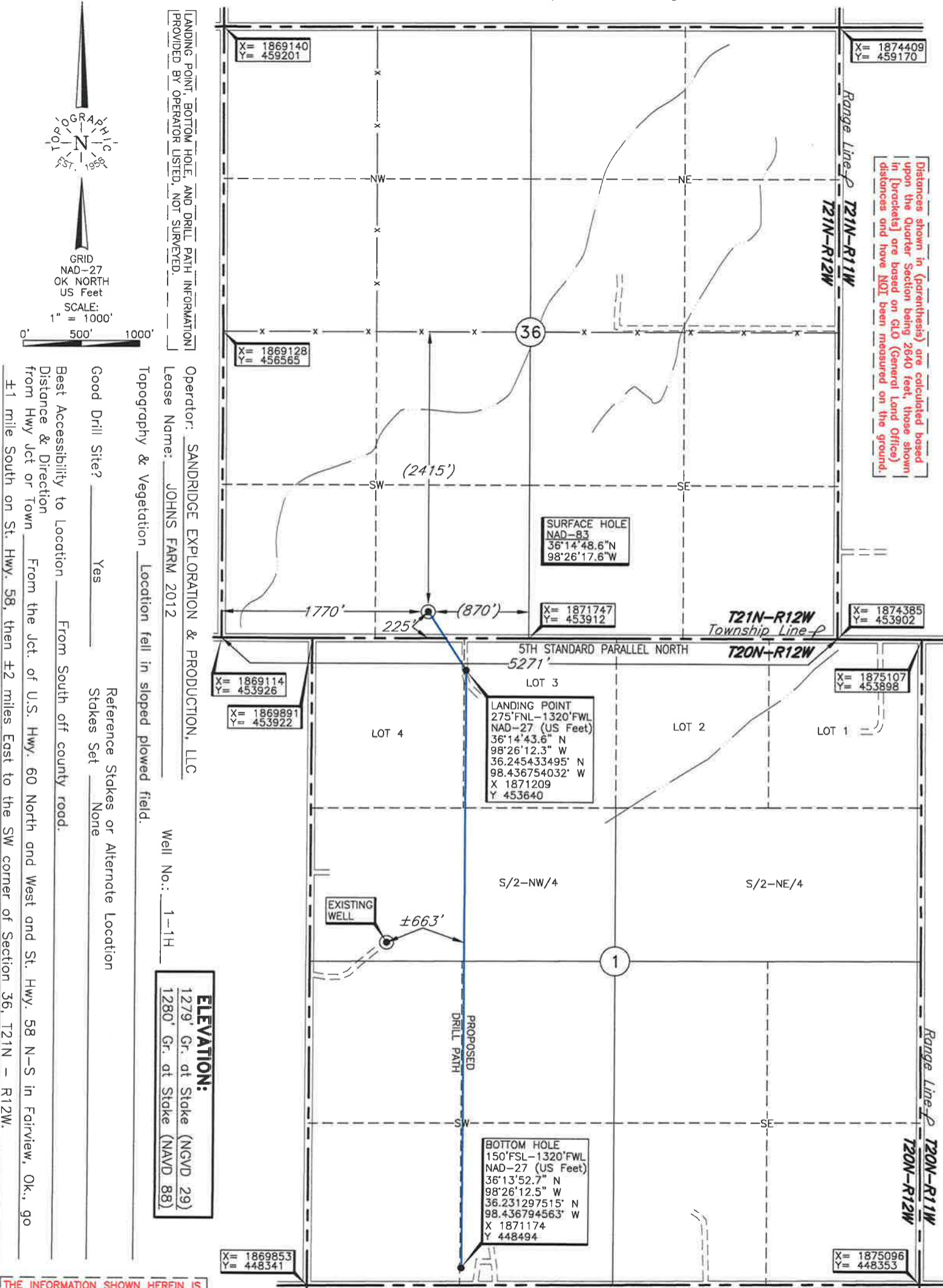
**TOPOGRAPHIC LAND SURVEYORS OF OKLAHOMA**

13800 WIRELESS WAY, OKLA. CITY, OKLA. 73134 \* LOCAL (405) 843-4847 \* OUT OF STATE (800) 654-3219  
 Certificate of Authorization No. 1293 LS

35-093-25205

MAJOR \_\_\_\_\_ County, Oklahoma

225'FSL-1770'FWL Section 36 Township 21N Range 12W I.M.



LANDING POINT, BOTTOM HOLE, AND DRILL PATH INFORMATION PROVIDED BY OPERATOR LISTED, NOT SURVEYED.

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: JOHNS FARM 2012  
 Well No.: 1-1H

Topography & Vegetation: Location fell in sloped plowed 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 the Jct. of U.S. Hwy. 60 North and West and St. Hwy. 58 N-S in Fairview, Ok., go ±1 mile South on St. Hwy. 58, then ±2 miles East to the SW corner of Section 36, T21N - R12W.

ELEVATION:  
 1279' Gr. at Stake (NGVD 29)  
 1280' Gr. at Stake (NAVD 88)

THE INFORMATION SHOWN HEREIN IS FOR CONSTRUCTION PURPOSES ONLY

Date of Drawing: Feb. 1, 2019

Project # 123679 Date Staked: Sept. 10, 2018 RKM/TR

**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



DATUM: NAD-27  
 LAT: 36°14'48.5"N  
 LONG: 98°26'16.3"W  
 LAT: 36.246807826°N  
 LONG: 98.437860643°W  
 STATE PLANE COORDINATES: (US Feet)  
 ZONE: OK NORTH  
 X: 1870885  
 Y: 454142



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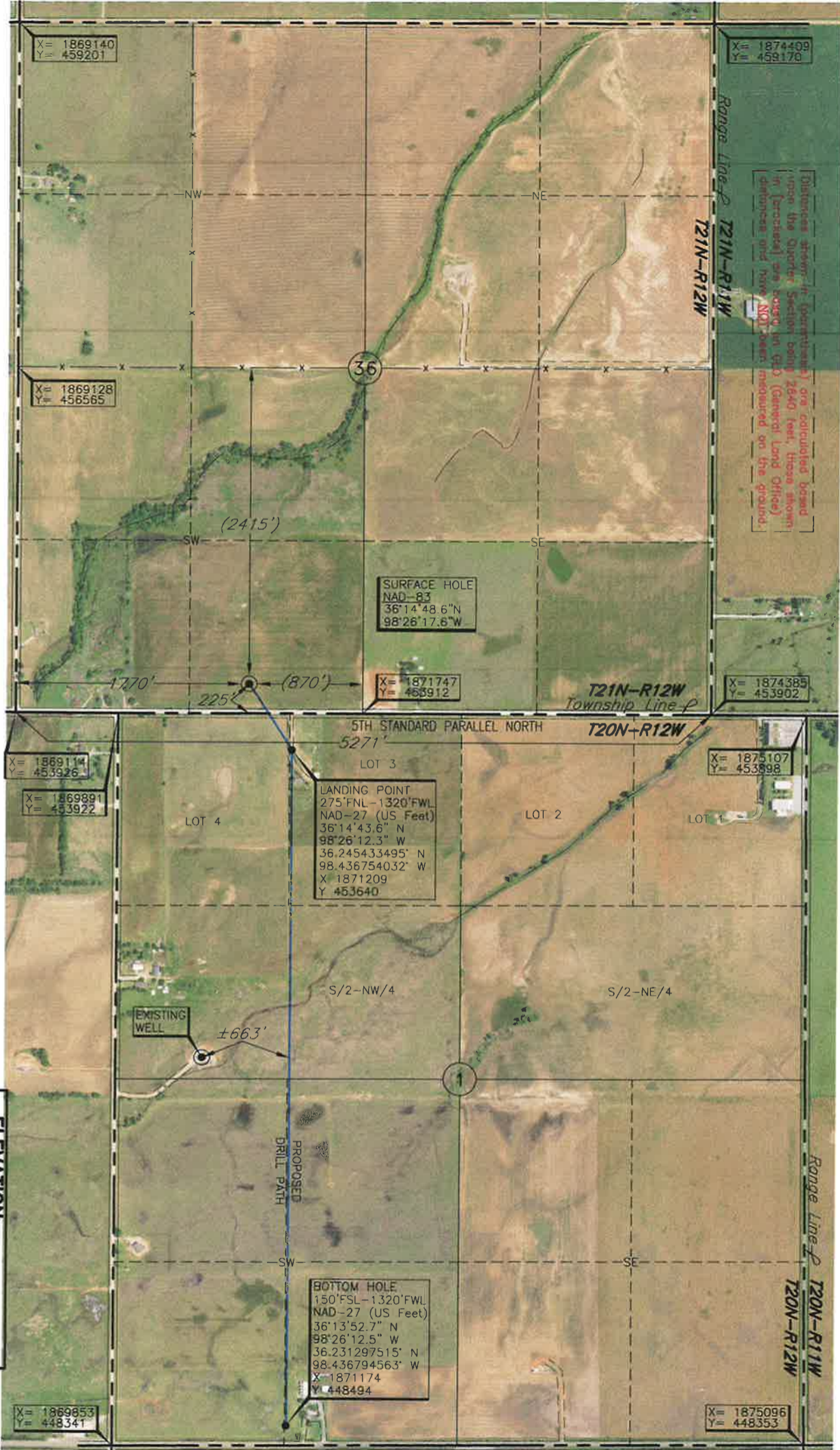
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County, Oklahoma

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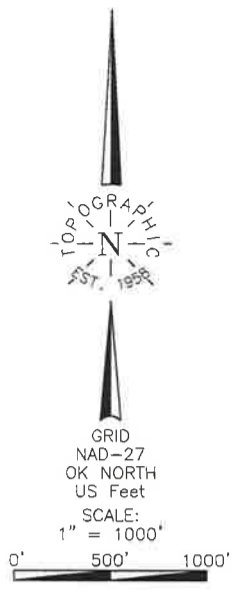


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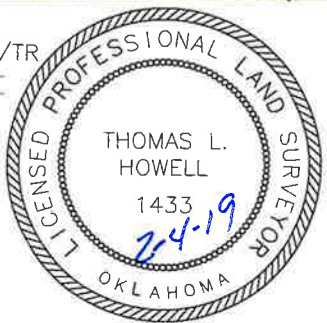
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DATUM: NAD-27  
LAT: 36°14'48.5\"/>



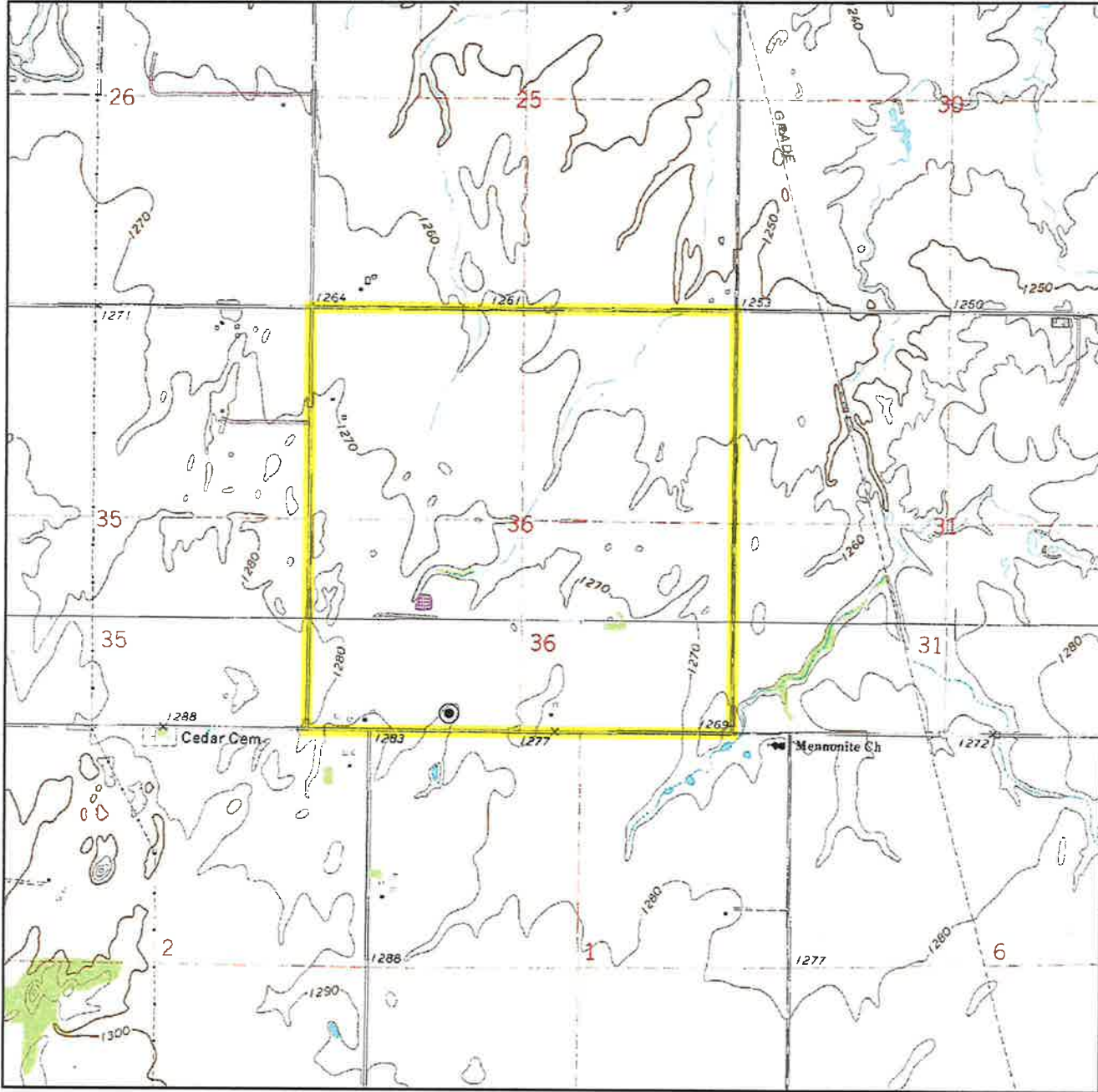
# TOPOGRAPHIC LAND SURVEYORS OF OKLAHOMA

Surveying and Mapping for the Energy Industry

13800 Wireless Way, Oklahoma City, OK 73134 [www.topographic.com](http://www.topographic.com)

Telephone Numbers: Local (405) 843-4847 Toll Free (800) 654-3219

## LOCATION & ELEVATION VERIFICATION MAP



Sec. 36 Twp. 21N Rng. 12W I.M.

County MAJOR State OK

Operator SANDRIDGE EXPLORATION & PRODUCTION, LLC

Description 225'FSL-1770'FWL

Lease JOHNS FARM 2012 1-1H

Elevation 1279' Gr. at Stake (NGVD 29)  
1280' Gr. at Stake (NAVD 88)

U.S.G.S. Topographic  
Quadrangle Map GLASS MOUNTAINS, 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.



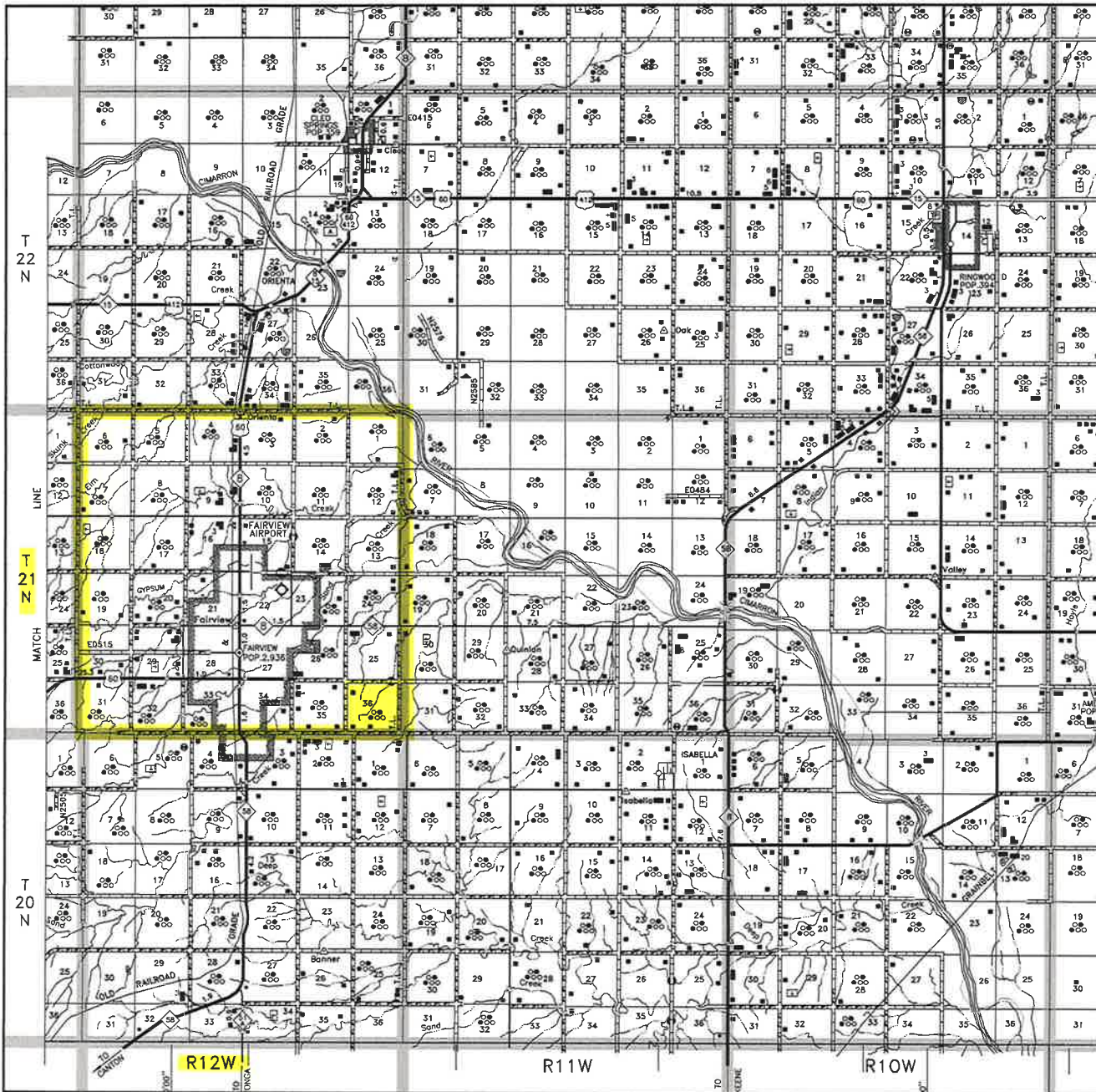
LAND SURVEYORS OF OKLAHOMA

Sept. 10, 2018

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## VICINITY MAP



Scale: 1" = 3 Miles

Sec. 36 Twp. 21N Rng. 12W I.M.

County MAJOR State OK

Operator SANDRIDGE EXPLORATION & PRODUCTION, LLC

