

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

API NUMBER: 151 24580

Approval Date: 10/29/2019

Expiration Date: 04/29/2021

Horizontal Hole Oil & Gas

PERMIT TO DRILL

WELL LOCATION: Sec: 35 Twp: 23N Rge: 13W County: WOODS
SPOT LOCATION: ☐ NW ☐ NE ☐ NW ☐ SW FEET FROM QUARTER: FROM SOUTH FROM WEST
SECTION LINES: 2607 700

Lease Name: NORTHERN LIGHTS Well No: 1-35-26 XH Well will be 700 feet from nearest unit or lease boundary.
Operator Name: BLAKE PRODUCTION COMPANY INC Telephone: 4052869800 OTC/OCC Number: 18119 0

BLAKE PRODUCTION COMPANY INC
1601 NW EXPRESSWAY STE 777
OKLAHOMA CITY, OK 73118-1446

CHAD REESE
1508 QUAIL LAKE WAY
MUSTANG OK 73064

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

Name	Depth	Name	Depth
1 OSWEGO	6215	6	
2		7	
3		8	
4		9	
5		10	

Spacing Orders: 700145

Location Exception Orders:

Increased Density Orders:

Pending CD Numbers: 201904771

Special Orders:

Total Depth: 11585 Ground Elevation: 1340 Surface Casing: 500 Depth to base of Treatable Water-Bearing FM: 320

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: 8000 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: 19-37024
H. CLOSED SYSTEM=STEEL PITS (REQUIRED - FIELD RULE 287231)

This permit does not address the right of entry or settlement of surface damages.
The duration of this permit is 18 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 26 Twp 23N Rge 13W County WOODS

Spot Location of End Point: SE NW NW SW

Feet From: SOUTH 1/4 Section Line: 2295

Feet From: WEST 1/4 Section Line: 345

Depth of Deviation: 5737

Radius of Turn: 481

Direction: 355

Total Length: 4600

Measured Total Depth: 11093

True Vertical Depth: 6215

End Point Location from Lease,

Unit, or Property Line: 345

Notes:

Category

Description

HYDRAULIC FRACTURING

10/21/2019 - GC2 - 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

LOCATION EXCEPTION - 201904771

10/24/2019 - GC2 - (I.O.) SW4 26 & NW4 35-23N-13W
X700145 OSWG SW4 26 & NW4 35-23N-13W
COMPL. INT. NCT 330' FWL, NCT 330' FNL, NCT 330' FEL, NCT 330' FSL
NO OP. NAMED
REC. 10-14-2019 (MILLER)

SPACING - 700145

10/23/2019 - GC2 - (320)(HOR)(IRR) SW4 26 & NW4 35-23N-13W
EST OSWG
COMPL. INT. NCT 660' FB
(COEXIT SP ORDER 68666 OSWG SW4 26-23N-13W; SP ORDER 55621 OSWG NW4 35-23N-13W)

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151 24580 NORTHERN LIGHTS 1-35-26 XH

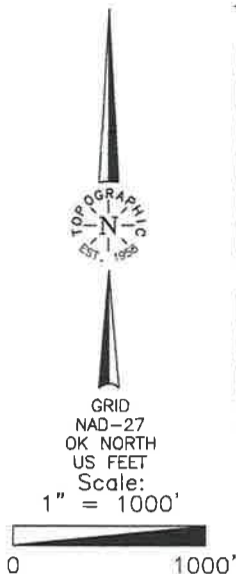
TOPOGRAPHIC LAND SURVEYORS OF OKLAHOMA

13800 Wireless Way, Okla. City, OK. 73134 * LOCAL (405) 843-4847 * OUT OF STATE (800) 654-3219
Certificate of Authorization No. 1293 LS

WOODS

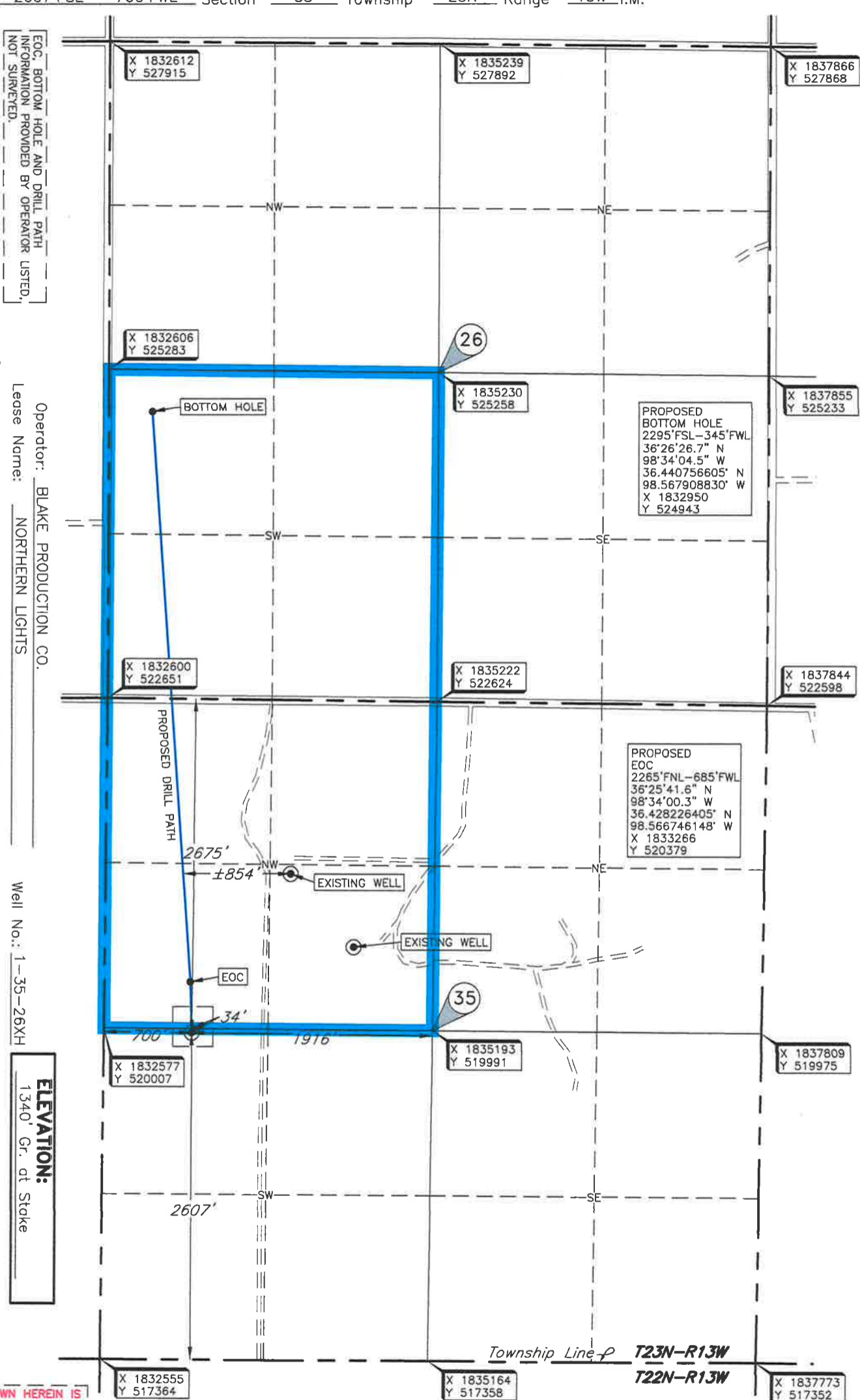
County, Oklahoma

2607'FSL - 700'FWL Section 35 Township 23N Range 13W I.M.



Operator: BLAKE PRODUCTION CO.
Lease Name: NORTHERN LIGHTS
Topography & Vegetation Location fell in brushy area.
Well No.: 1-35-26XH
ELEVATION: 1340' Gr. at Stake

Good Drill Site? Yes
Best Accessibility to Location From North off county road.
Distance & Direction From the intersection of the Woods County line and St. Hwy 45 go West ±2.0 miles, then go South ±10.0 miles to Northwest corner Section 35, T23N-R13W.
Reference Stakes or Alternate Location Stakes Set None



THE INFORMATION SHOWN HEREIN IS FOR CONSTRUCTION PURPOSES ONLY

DATUM: NAD-27
LAT: 36°25'37.6" N
LONG: 98°34'00.1" W
LAT: 36.427100564° N
LONG: 98.566698965° W
STATE PLANE
COORDINATES (US FEET):
ZONE: OK NORTH
X: 1833277
Y: 519969

Revision ☒ 1

Date of Drawing: October 24, 2019

Project # 127800

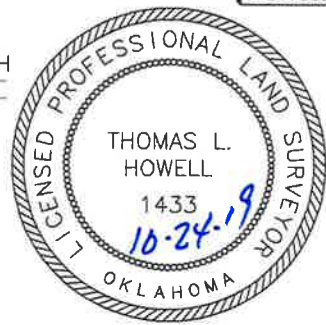
Date Staked: July 1, 2019

KH

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



TOPOGRAPHIC LAND SURVEYORS OF OKLAHOMA

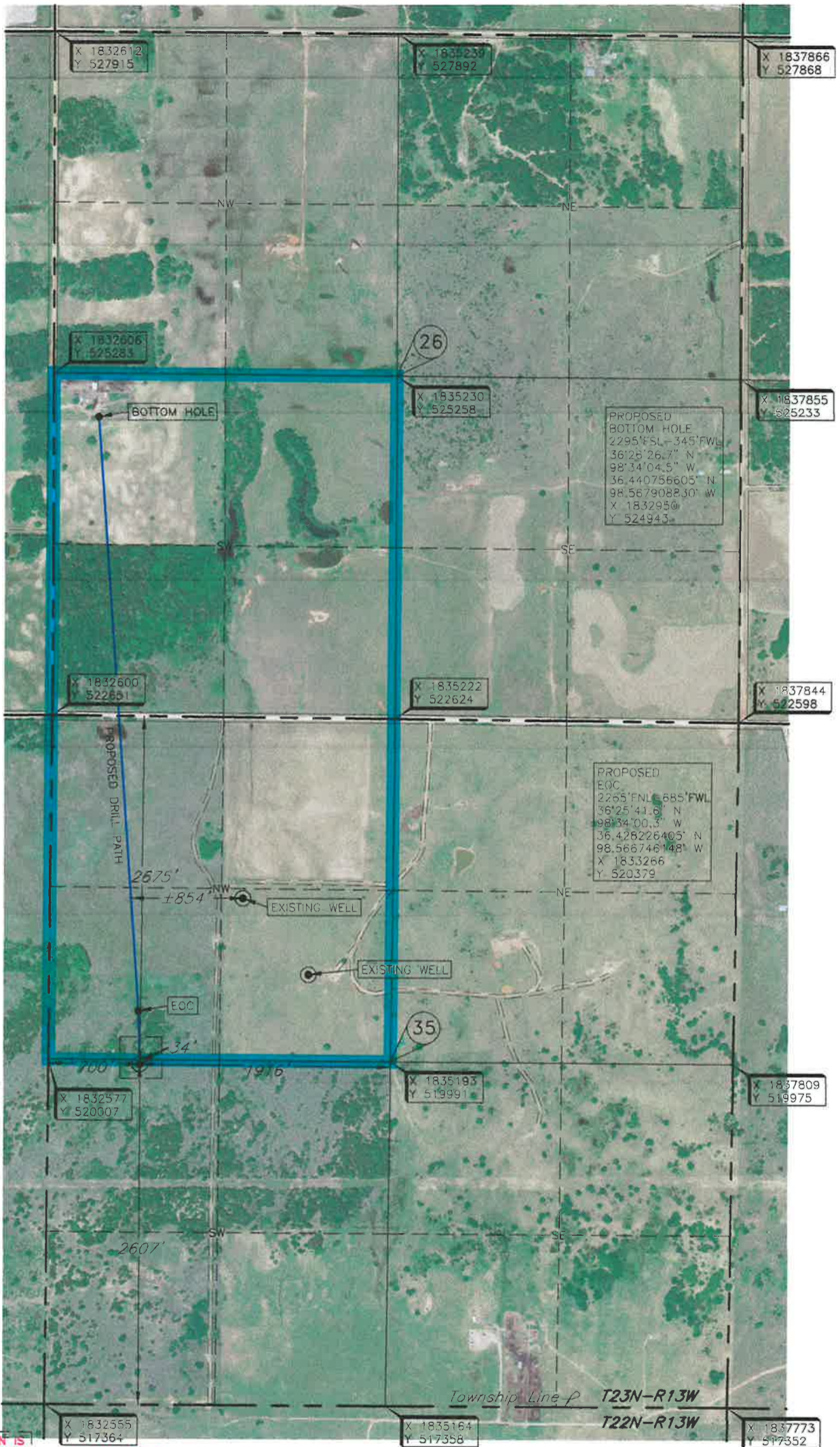
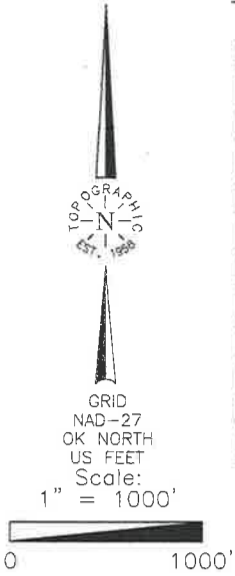
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WOODS

County, Oklahoma

2607'FSL - 700'FWL Section 35 Township 23N Range 13W I.M.

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



Operator: BLAKE PRODUCTION CO.
Lease Name: NORTHERN LIGHTS

Topography & Vegetation Location fell in brushy area.

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Best Accessibility to Location From North off county road.

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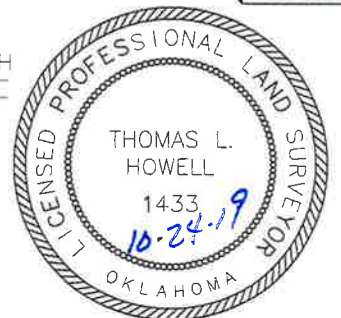
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LONG: 98.566698965° W
STATE PLANE
COORDINATES (US FEET):
ZONE: OK NORTH
X: 1833277
Y: 519969

Information gathered with a GPS receiver was accurate to within 1 ft with a 95% probability.

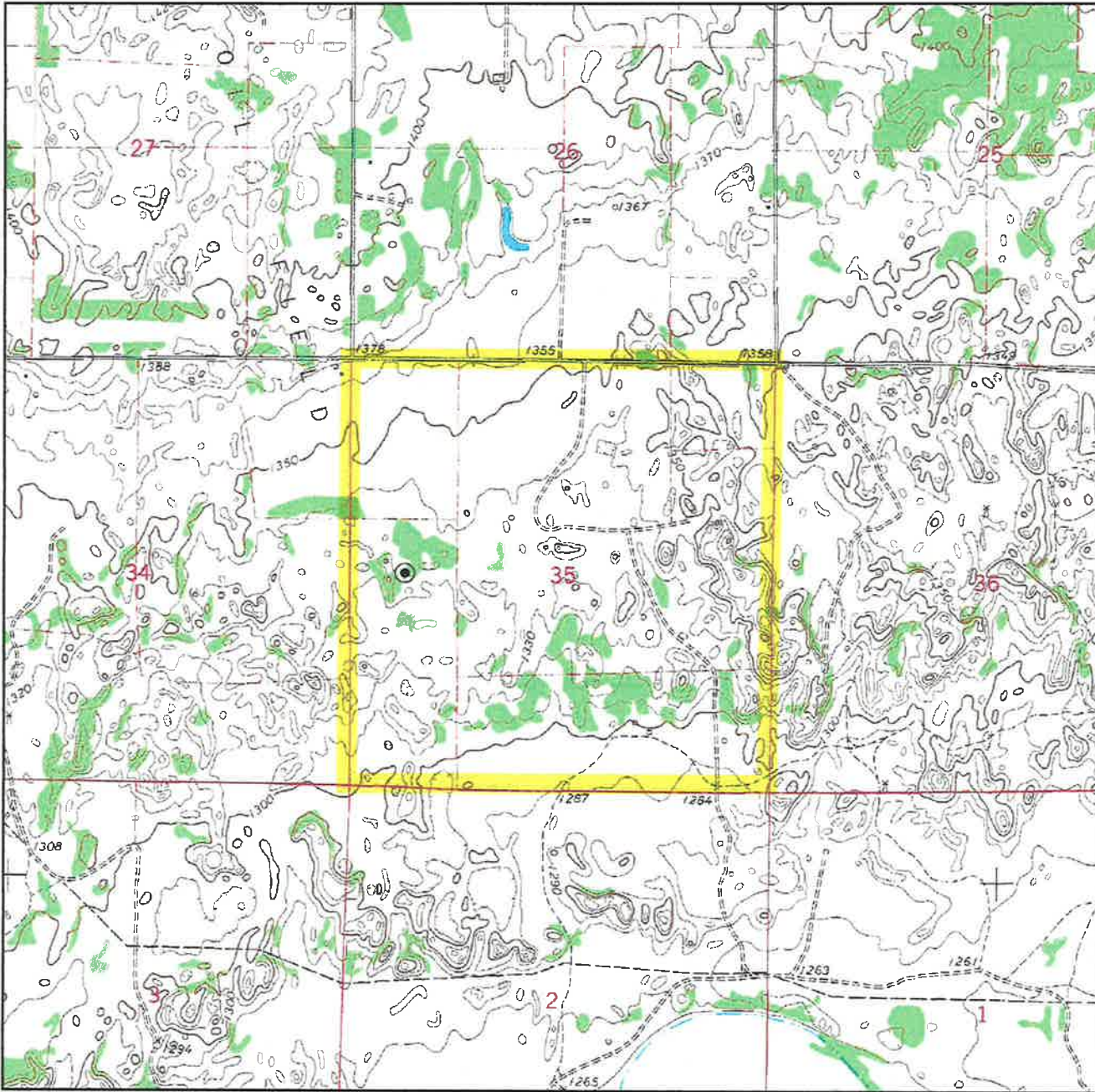
TOPOGRAPHIC LAND SURVEYORS OF OKLAHOMA

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

LOCATION & ELEVATION VERIFICATION MAP



Sec. 35 Twp. 23N Rng. 13W I.M.

County WOODS State OK

Operator BLAKE PRODUCTION CO.

Description 2607' FSL — 700' FWL

Lease NORTHERN LIGHTS 1-35-26XH

Elevation 1340' Gr. at Stake

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

July 1, 2019

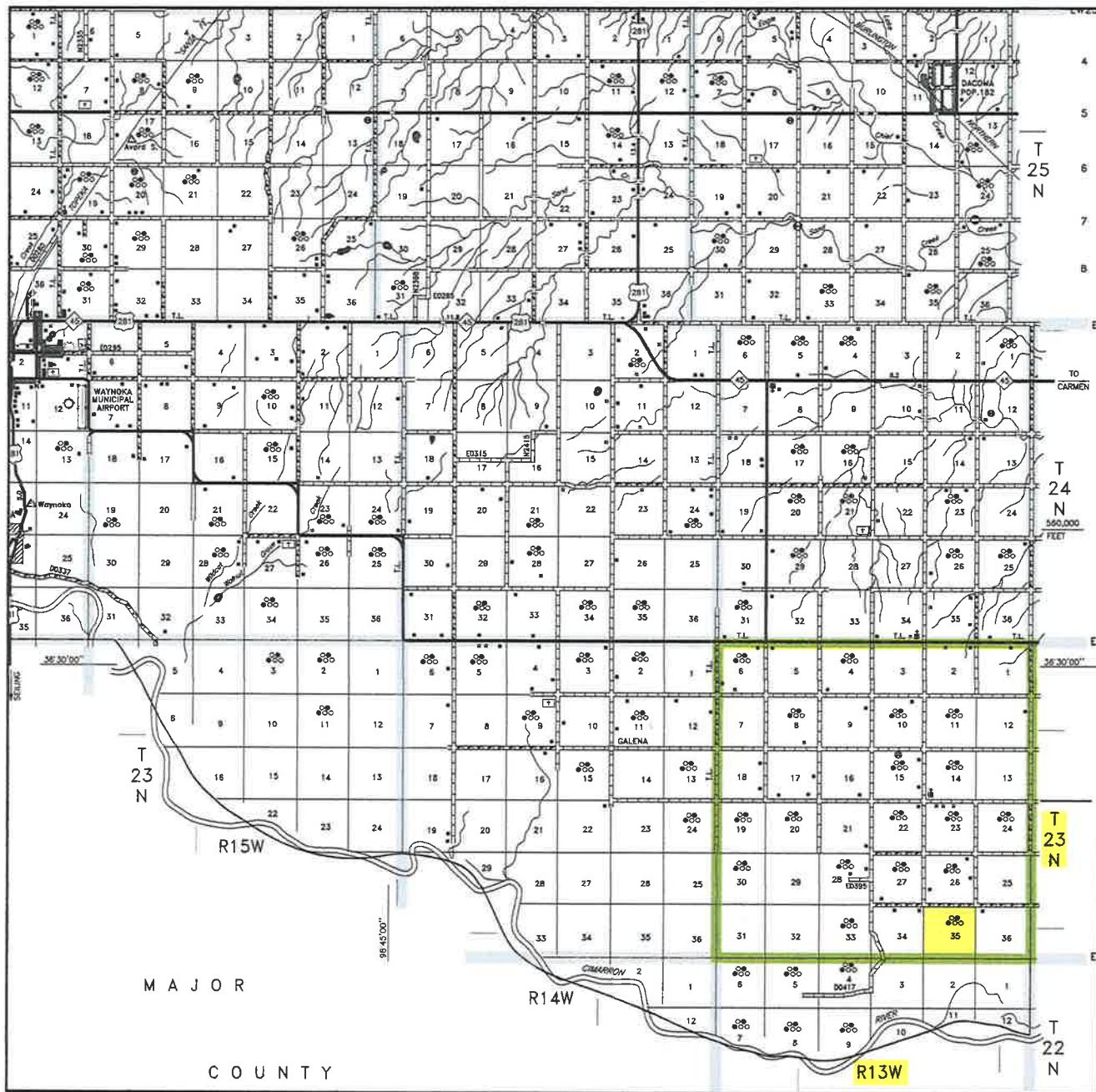
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VICINITY MAP



Scale: 1" = 3 Miles

Sec. 35 Twp. 23N Rng. 13W I.M.

County WOODS State OK

Operator BLAKE PRODUCTION CO.



LAND SURVEYORS OF OKLAHOMA