

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

API NUMBER: 045 23761 B

Approval Date: 08/14/2018
Expiration Date: 02/14/2019

Horizontal Hole Oil & Gas

Amend reason: OCC CORRECTION FOR WELL NUMBER
SHL, SURFACE OWNER, DISPOSAL, TOTAL DEPTH

AMEND PERMIT TO DRILL

WELL LOCATION: Sec: 19 Twp: 18N Rge: 24W County: ELLIS
SPOT LOCATION: ☐ NE ☐ NW ☐ NE ☐ NE FEET FROM QUARTER: FROM NORTH FROM EAST
SECTION LINES: 300 960

Lease Name: BROWN 18 Well No: 3H Well will be 300 feet from nearest unit or lease boundary.
Operator Name: EOG RESOURCES INC Telephone: 4052463224 OTC/OCC Number: 16231 0

EOG RESOURCES INC
3817 NW EXPRESSWAY STE 500
OKLAHOMA CITY, OK 73112-1483

F. LEE & LONA B. DOWLING
HCR 63 BOX 15
ARNETT OK 73832

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

	Name	Depth	Name	Depth
1	MARMATON	9300	6	
2			7	
3			8	
4			9	
5			10	

Spacing Orders: 586080 Location Exception Orders: 684942 Increased Density Orders: 682230
686353

Pending CD Numbers:

Special Orders:

Total Depth: 14800 Ground Elevation: 2248 Surface Casing: 1500 Depth to base of Treatable Water-Bearing FM: 540

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: 100000 Average: 5000

E. Haul to Commercial pit facility: Sec. 34 Twn. 14N Rng. 24W Cnty. 129 Order No: 563353

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

H. SEE MEMO

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 BED AQUIFER

Pit Location Formation: CLOUD CHIEF

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: 300000 Average: 100000

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 BED AQUIFER

Pit Location Formation: CLOUD CHIEF

HORIZONTAL HOLE 1

Sec 18 Twp 18N Rge 24W County ELLIS

Spot Location of End Point: N2 NE NE NE

Feet From: NORTH 1/4 Section Line: 165

Feet From: EAST 1/4 Section Line: 330

Depth of Deviation: 8750

Radius of Turn: 692

Direction: 5

Total Length: 4963

Measured Total Depth: 14800

True Vertical Depth: 9305

End Point Location from Lease,
Unit, or Property Line: 165

Notes:

Category

Description

DEEP SURFACE CASING

7/16/2018 - 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

7/16/2018 - 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 - 682230

3/15/2019 - G58 - 18-18N-9W
X586080 MRMN
2 WELLS
EOG RESOURCES, INC.
8/28/2018

LOCATION EXCEPTION - 684942

3/15/2019 - G58 - (I.O.) 18-18N-24W
X586080 MRMN
COMPL. INT. NCT 165' FSL, NCT 165' FNL, NCT 330' FEL
EOG RESOURCES, INC.
10/15/2018

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

045 23761 BROWN 18 3H

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
LOCATION EXCEPTION - 686353	3/15/2019 - G58 - (I.O.) 18-18N-9W X165:10-3-28(C)(2)(B) MRMN (BROWN 18 3H) MAY BE CLOSER THAN 600' FROM THE BROWN 18 2H WELL 11/8/2018
MEMO	7/16/2018 - G71 - PIT 1 & 2 - CLOSED SYSTEM=STEEL PITS PER OPERATOR REQUEST; PIT 1 – WBM & CUTTINGS TO BE SOIL FARMED; PIT 2 - OBM TO VENDOR, OBM CUTTINGS TO COMMERCIAL PIT OR LONE MOUNTAIN FACILITY, EPA ID # OKD065438376, 28 & 33-23N-15W, MAJOR CO
SPACING - 586080	8/14/2018 - G58 - (640)(HOR) 18-18N-24W EST MRMN, OTHERS COMPL. INT. NLT 660' FB (SUPERSEDE NON-PRODUCING, NON-HORIZONTAL SPACING UNITS; COEXIST WITH PRODUCING, NON-HORIZONTAL SPACING UNITS)

TOPOGRAPHIC LAND SURVEYORS OF OKLAHOMA

13800 WIRELESS WAY, OKLA. CITY, OKLA. 73134 * LOCAL (405) 843-4847 * OUT OF STATE (800) 654-3219

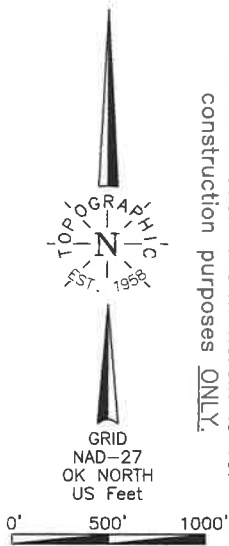
Certificate of Authorization No. 1293 LS

ELLIS

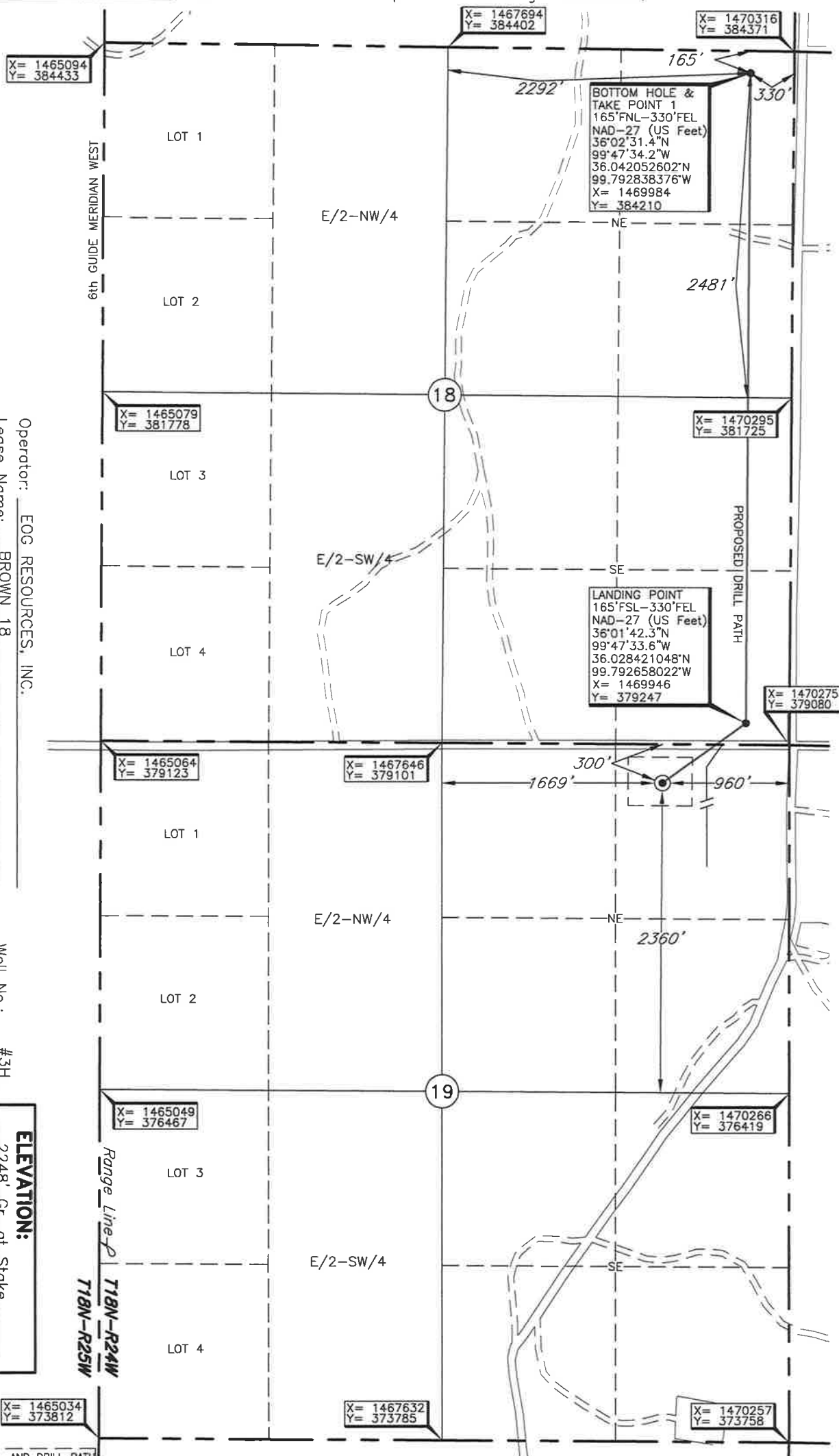
County, Oklahoma

045-23761 B

300'FNL-960'FEL Section 19 Township 18N Range 24W I.M.



NOTE:
The information shown herein is for construction purposes ONLY.



Operator: EOG RESOURCES, INC.
Lease Name: BROWN 18
Topography & Vegetation: Loc. fell in sloped rolling grass pasture ±334' West of N-S pipeline.
Good Drill Site? Yes
Reference Stakes or Alternate Location: Stakes Set
Best Accessibility to Location: From North off county road.
Distance & Direction: From the junction of State Hwy. 51 E-W and US 283 S. East of Arnett, OK, go South ±7.5 miles, then West ±2 miles to the NE Cor. of Sec. 19-T18N-R24W.

ELEVATION:
2248' Gr. at Stake

LANDING POINT, BOTTOM HOLE, TAKE POINT 1, AND DRILL PATH INFORMATION PROVIDED BY OPERATOR LISTED, NOT SURVEYED.

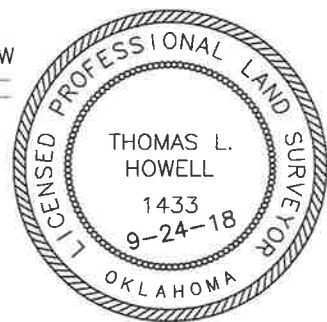
DATUM: NAD-27
LAT: 36°01'37.7"N
LONG: 99°47'41.2"W
LAT: 36.027126270°N
LONG: 99.794766528°W
STATE PLANE COORDINATES: (US Feet)
ZONE: OK NORTH
X: 1469314
Y: 378788

Date of Drawing: Sept. 21, 2018
Invoice # 303145 Date Staked: Sept. 19, 2018 TAW

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



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ELLIS

County, Oklahoma

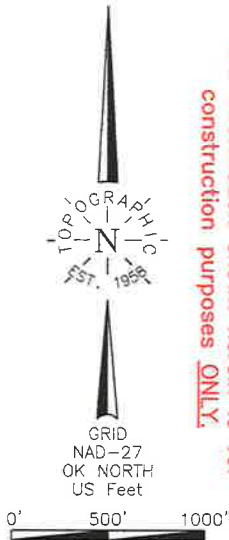
300'FNL-960'FEL

Section 19

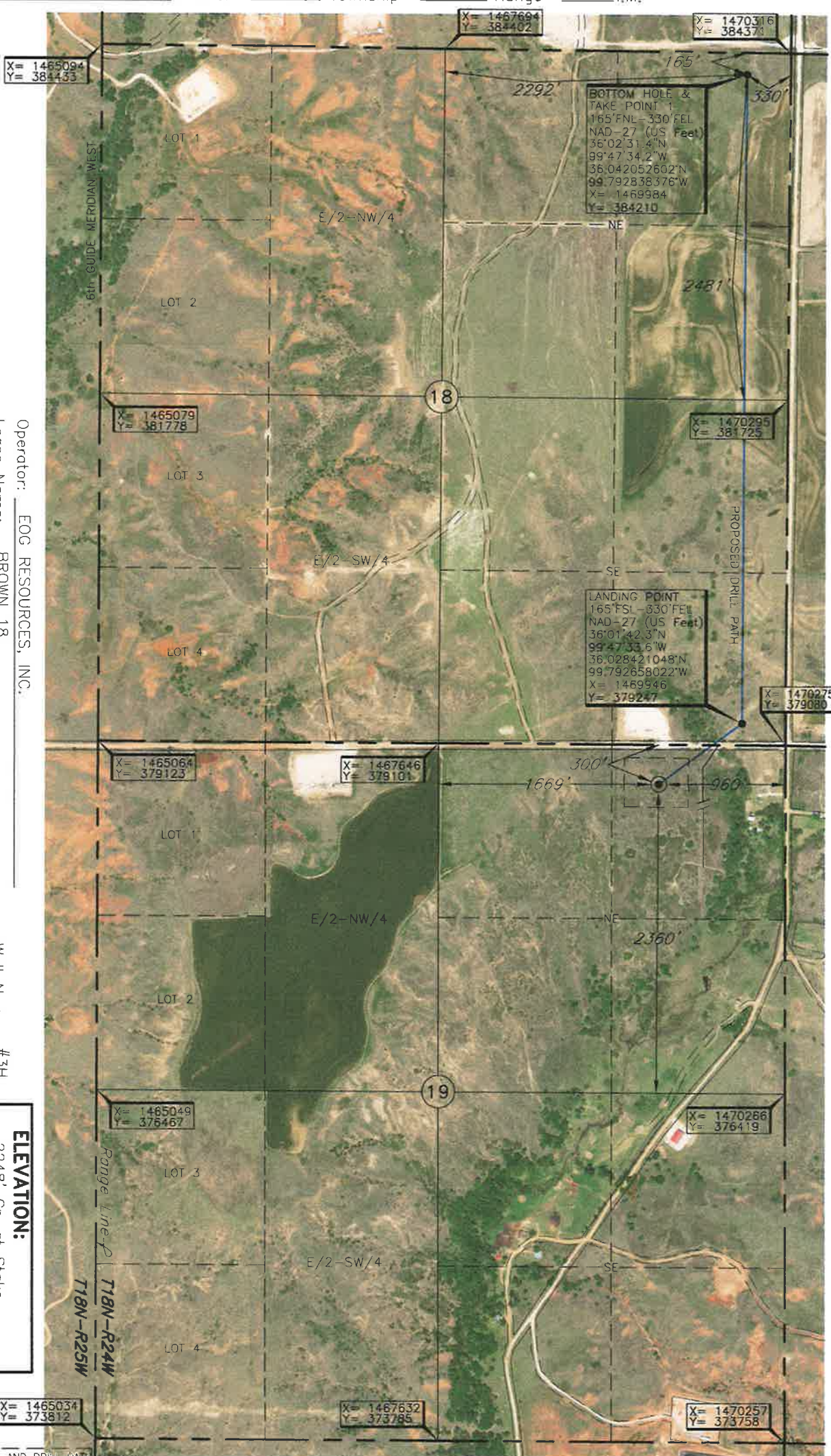
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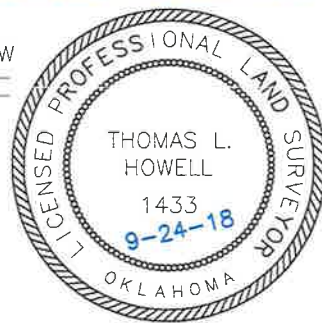
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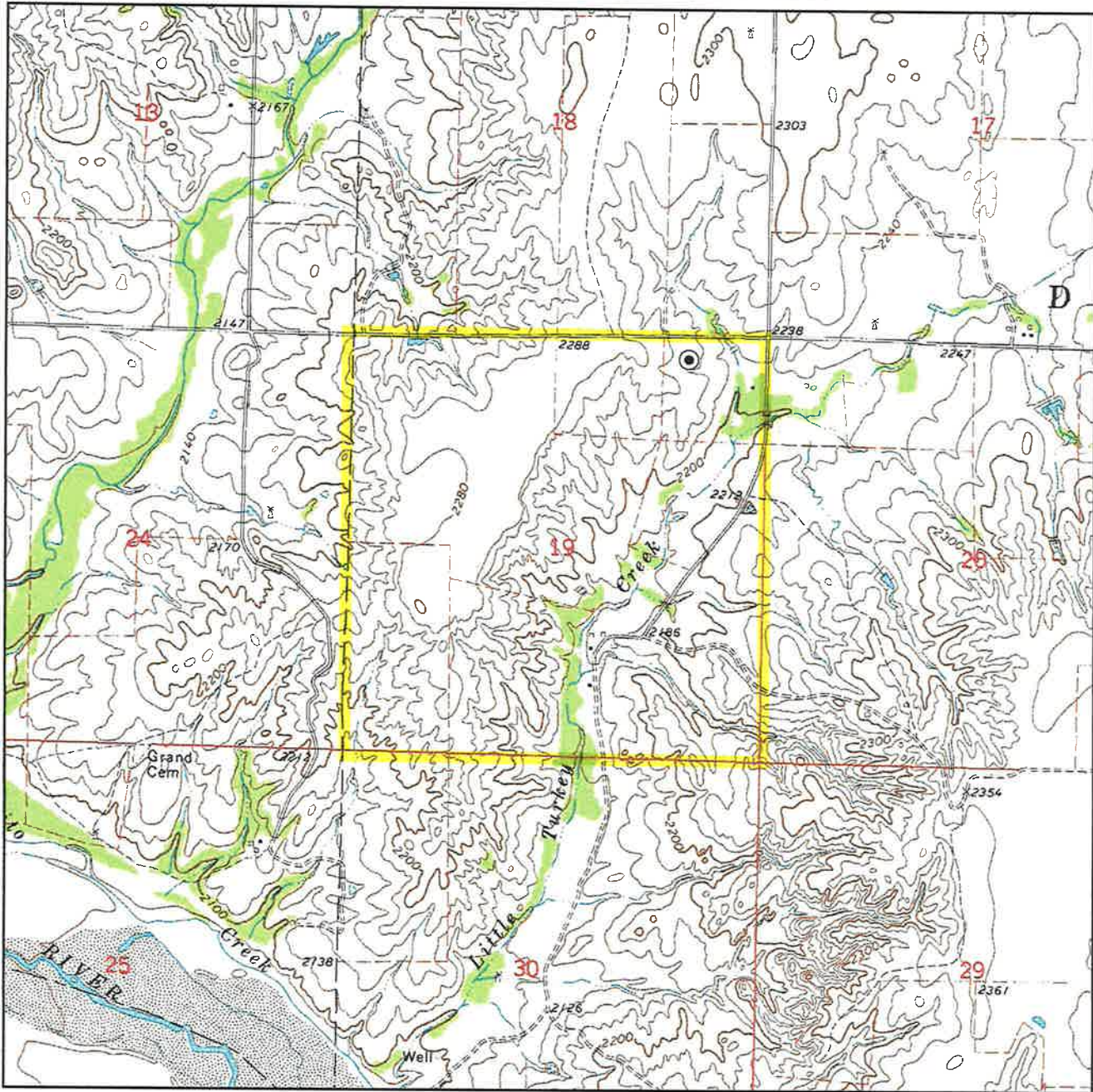
TOPOGRAPHIC LAND SURVEYORS OF OKLAHOMA

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. 19 Twp. 18N Rng. 24W IM

County ELLIS State OK

Operator EOG RESOURCES, INC.

Description 300'FNL-960'FEL

Lease BROWN 18 #3H

Elevation 2248' Gr. at Stake

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

Scale: 1"=2000'

Contour Interval 20'

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.



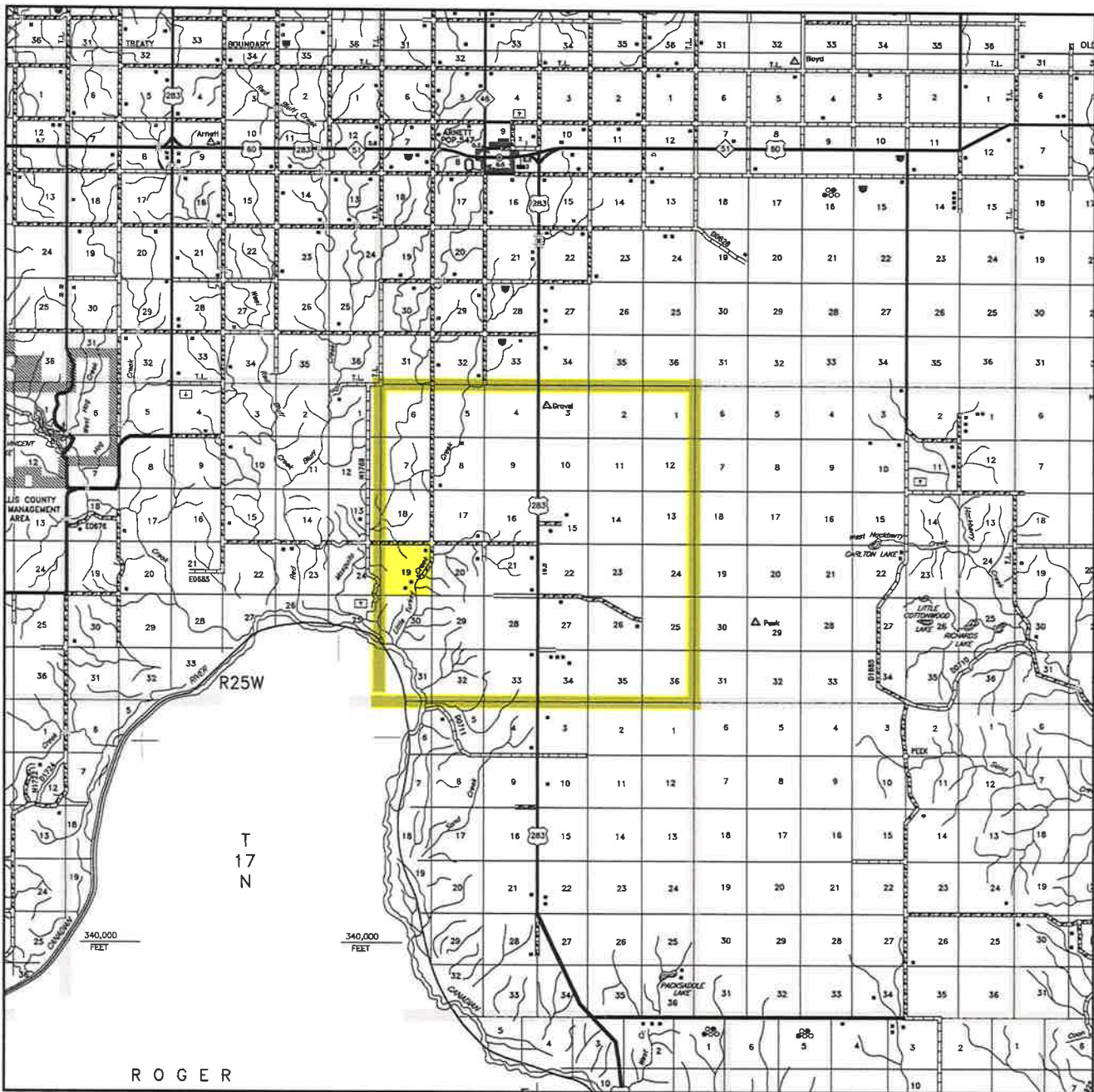
LAND SURVEYORS OF OKLAHOMA

Sept. 21, 2018

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13800 Wireless Way, Oklahoma City, OK 73134 www.topographic.com
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VICINITY MAP



Scale: 1" = 3 Miles

Sec. 19 Twp. 18N Rng. 24W IM

County ELLIS State OK

Operator EOG RESOURCES, INC.



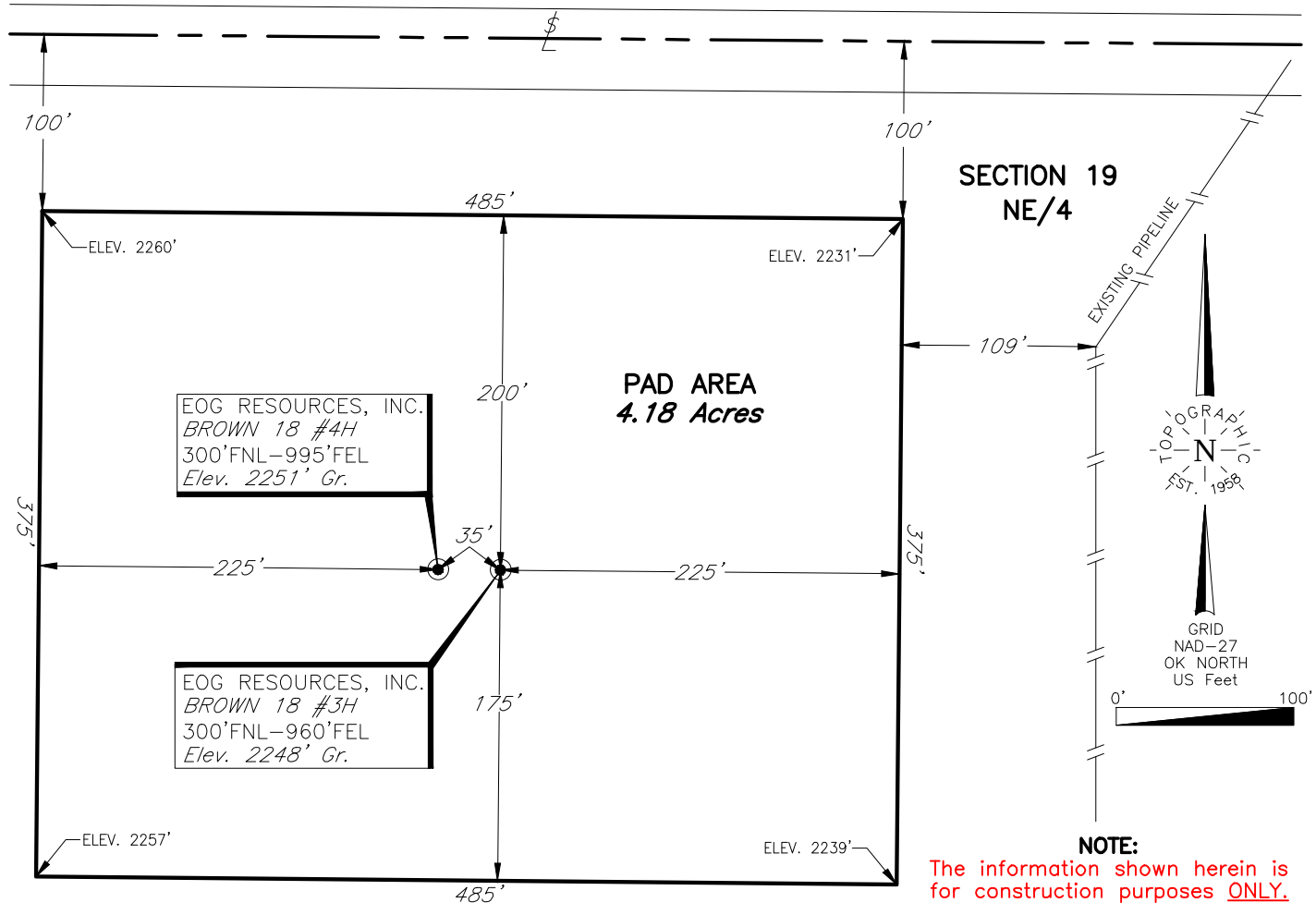
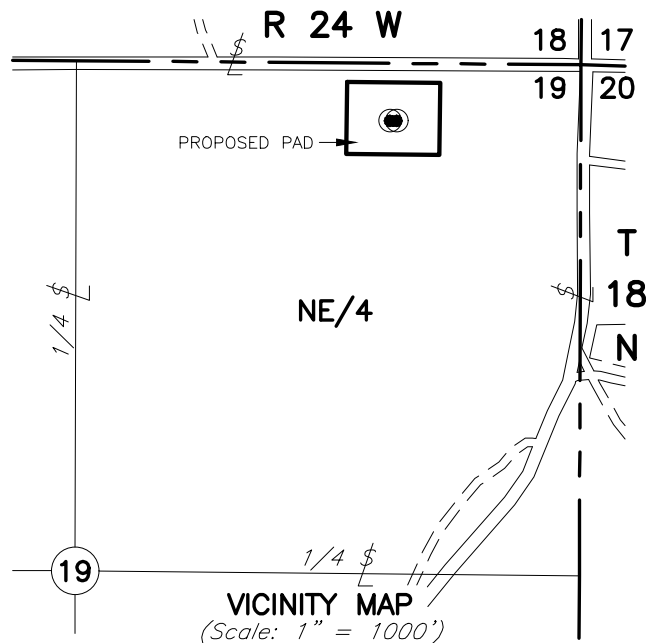
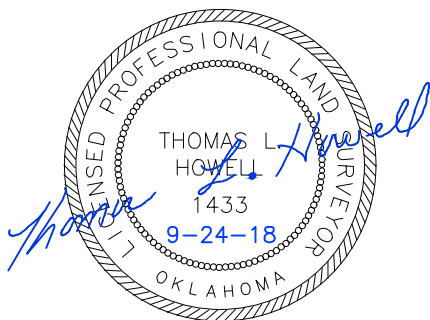
TOPOGRAPHIC
LOYALTY INNOVATION LEGACY

LAND SURVEYORS OF OKLAHOMA

T 18 N – R 24 W
(INDIAN MERIDIAN)

PLAT SHOWING

**PROPOSED PAD AREA IN THE
 NE/4 OF SECTION 19, T18N – R24W
 ELLIS COUNTY, OKLAHOMA**



				This plat was prepared exclusively for		SCALE: 1"=100'	
				EOG RESOURCES, INC.		DATE: 9/21/18	
NO. REVISION DATE BY				and may not be relied upon by any other entity without the written consent of Topographic Land Surveyors of Oklahoma		INVOICE NO.: 303145	
SUR. BY: RL 9/19/18				SURVEYING AND MAPPING BY		FILE NAME: L2304A.DWG	
DRAWN BY: TAW				TOPOGRAPHIC LAND SURVEYORS OF OKLAHOMA		DWG NO.: 105048-L2-304-A	
APPROVED BY: TH				13800 Wireless Way, Okla. City, OK. 73134 (405) 843-4847		SHEET 1 OF 1	
				Certificate of Authorization No. 1293 LS			