

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

API NUMBER: 045 23718

Approval Date: 01/11/2018

Expiration Date: 07/11/2018

Horizontal Hole Oil & Gas

PERMIT TO DRILL

WELL LOCATION: Sec: 17 Twp: 18N Rge: 24W

County: ELLIS

SPOT LOCATION: ☐ NW ☐ NW ☐ NE ☐ NE

FEET FROM QUARTER: FROM NORTH FROM EAST

SECTION LINES: 250 1290

Lease Name: HURST-BOUGHAN

Well No: 8 3H

Well will be 250 feet from nearest unit or lease boundary.

Operator
Name: EOG RESOURCES INC

Telephone: 4052463212

OTC/OCC Number: 16231 0

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

JESSE A STEFFY
4039 TINCHER ROAD
INDIANAPOLIS IN 46221-

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

Name	Depth	Name	Depth
1 MARMATON	9050	6	
2		7	
3		8	
4		9	
5		10	

Spacing Orders: 599494

Location Exception Orders:

Increased Density Orders:

Pending CD Numbers: 201706484
201706483

Special Orders:

Total Depth: 15619

Ground Elevation: 2266

Surface Casing: 1500

Depth to base of Treatable Water-Bearing FM: 580

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

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

D. One time land application -- (REQUIRES PERMIT)

PERMIT NO: 17-33299

E. Haul to Commercial pit facility: Sec. 21 Twn. 14N Rng. 21W Cnty. 129 Order No: 376462

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: 300000 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 BED AQUIFER

Pit Location Formation: CLOUD CHIEF

HORIZONTAL HOLE 1

Sec 08 Twp 18N Rge 24W County ELLIS

Spot Location of End Point: NW NE NE NW

Feet From: NORTH 1/4 Section Line: 50

Feet From: WEST 1/4 Section Line: 2157

Depth of Deviation: 9051

Radius of Turn: 940

Direction: 340

Total Length: 5092

Measured Total Depth: 15619

True Vertical Depth: 9179

End Point Location from Lease,
Unit, or Property Line: 50

Notes:

Category

Description

DEEP SURFACE CASING

11/6/2017 - 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

11/6/2017 - 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

MEMO

11/6/2017 - G71 - PITS 1 & 2 - CLOSED SYSTEM=STEEL PITS PER OPERATOR REQUEST, PIT 2 - OBM RETURNED TO VENDOR, CUTTINGS PERMITTED PER DISTRICT

PENDING CD - 201706483

11/9/2017 - G58 - (I.O.) 8-18N-24W
X599494 MRMN
3 WELLS
NO OP NAMED
REC 1/3/2018 (THOMAS)

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

045 23718 HURST-BOUGHAN 8 3H

The duration of this permit is SIX MONTHS, except as otherwise provided by Rule 165: 10-3-1.

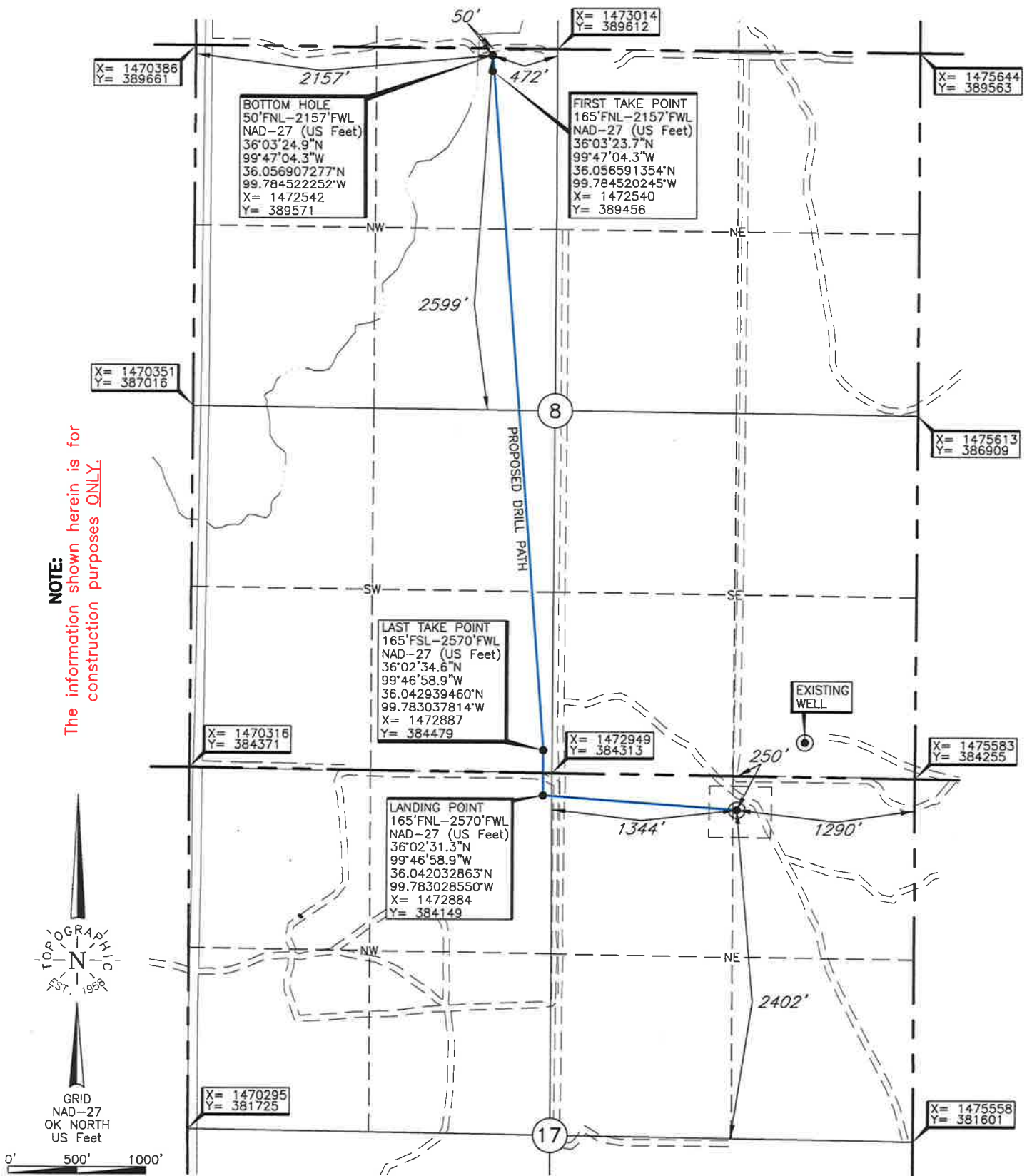
Rule 165: 10-3-4 (c) (7) (e) - The Operator shall give 24 Hours notice by telephone to the appropriate District Office of the Conservation Division as to when Surface Casing will be run.

Category	Description
PENDING CD - 201706484	11/9/2017 - G58 - (I.O.) 8-18N-24W X599494 MRMN COMPL. INT. NCT 165' FSL, NCT 2570 FWL, NCT 165' FNL, NCT 2157' FWL NO OP NAMED REC 1/3/2018 (THOMAS)
SPACING - 599494	11/9/2017 - G58 - (640)(HOR) 5-18N-24W EST MRMN, OTHERS POE TO BHL NCT 660' FB (SUPERSEDE NON-PRODUCING NON-HORIZONTAL SPACING UNITS; COEXIST WITH PRODUCING NON-HORIZONTAL SPACING UNITS)

County, Oklahoma

250'FNL-1290'FEL Section 17 Township 18N Range 24W I.M.

045-23718



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

Operator: EOG RESOURCES, INC.

Lease Name: HURST-BOUGHAN

Well No.: 08#3H

ELEVATION:

2266' Gr. at Stake

Topography & Vegetation Loc. fell in sandy brush pasture.

Good Drill Site? Yes

Reference Stakes or Alternate Location
Stakes Set None

Best Accessibility to Location From East off lease road.

Distance & Direction
from Hwy Jct or Town From the junction of US Hwy, 60 E-W and US Hwy, 283 S, go South
±6.5 miles, then West ±1 through section 16 to the NE Cor. of Sec 17-T18N-R24W.

Date of Drawing: Nov. 16, 2017

Invoice # 284368 Date Staked: Sept. 19, 2017

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

Oklahoma Lic. No. 1433



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

DATUM: NAD-27
LAT: 36°02'30.4"N
LONG: 99°46'41.7"W
LAT: 36.041785982°N
LONG: 99.778262579°W
STATE PLANE
COORDINATES: (US Feet)
ZONE: OK NORTH
X: 1474291
Y: 384033

TOPOGRAPHIC LAND SURVEYORS OF OKLAHOMA

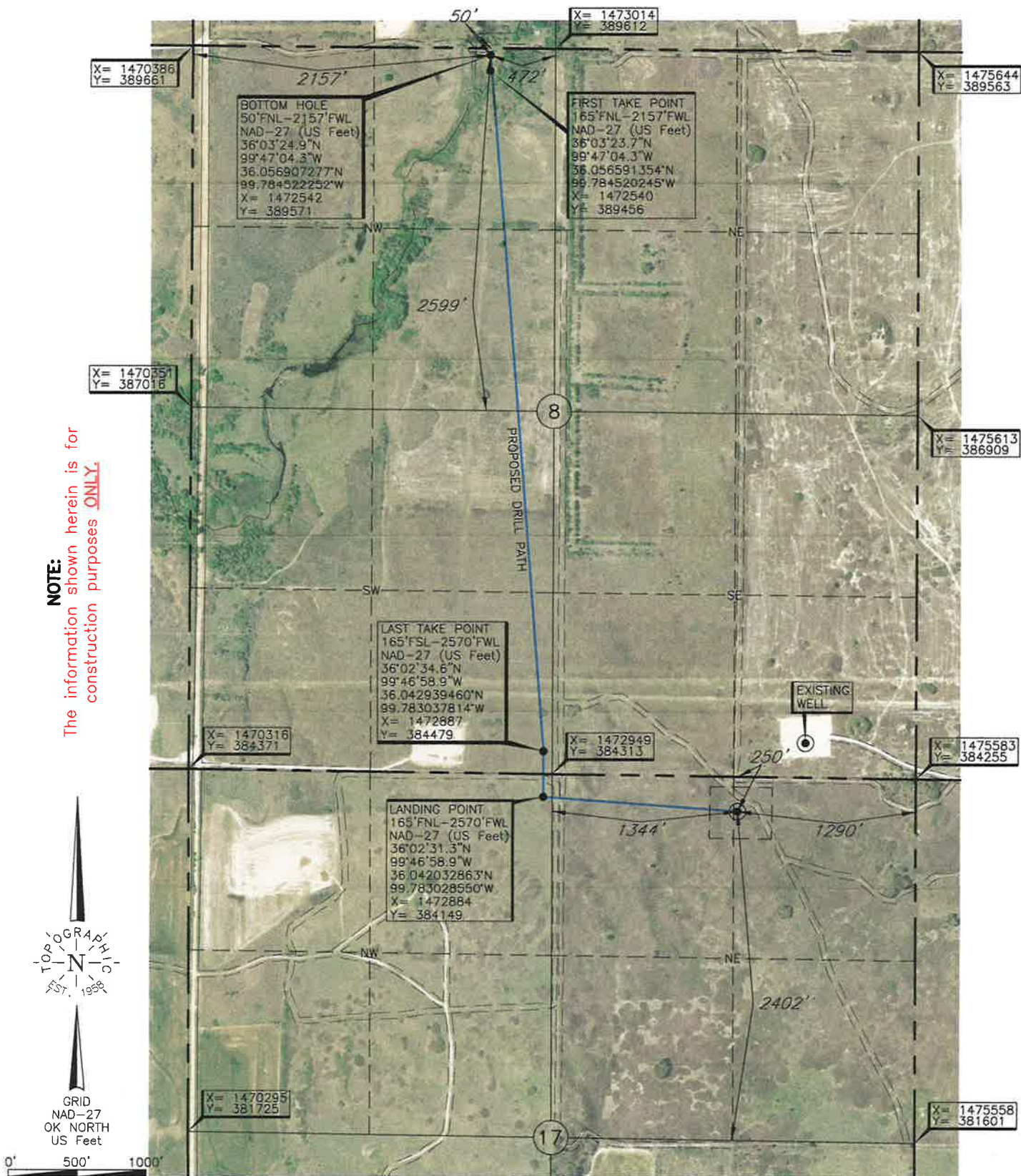
6709 NORTH CLASSEN BLVD., OKLA. CITY, OKLA. 73116 * LOCAL (405) 843-4847 * OUT OF STATE (800) 654-3219
Certificate of Authorization No. 1293 LS

ELLIS

County, Oklahoma

250'FNL-1290'FEL Section 17 Township 18N Range 24W I.M.

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



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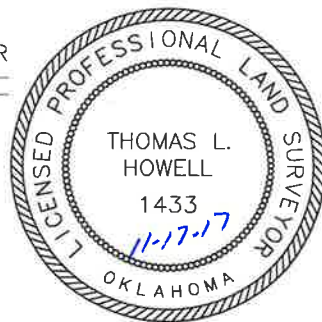
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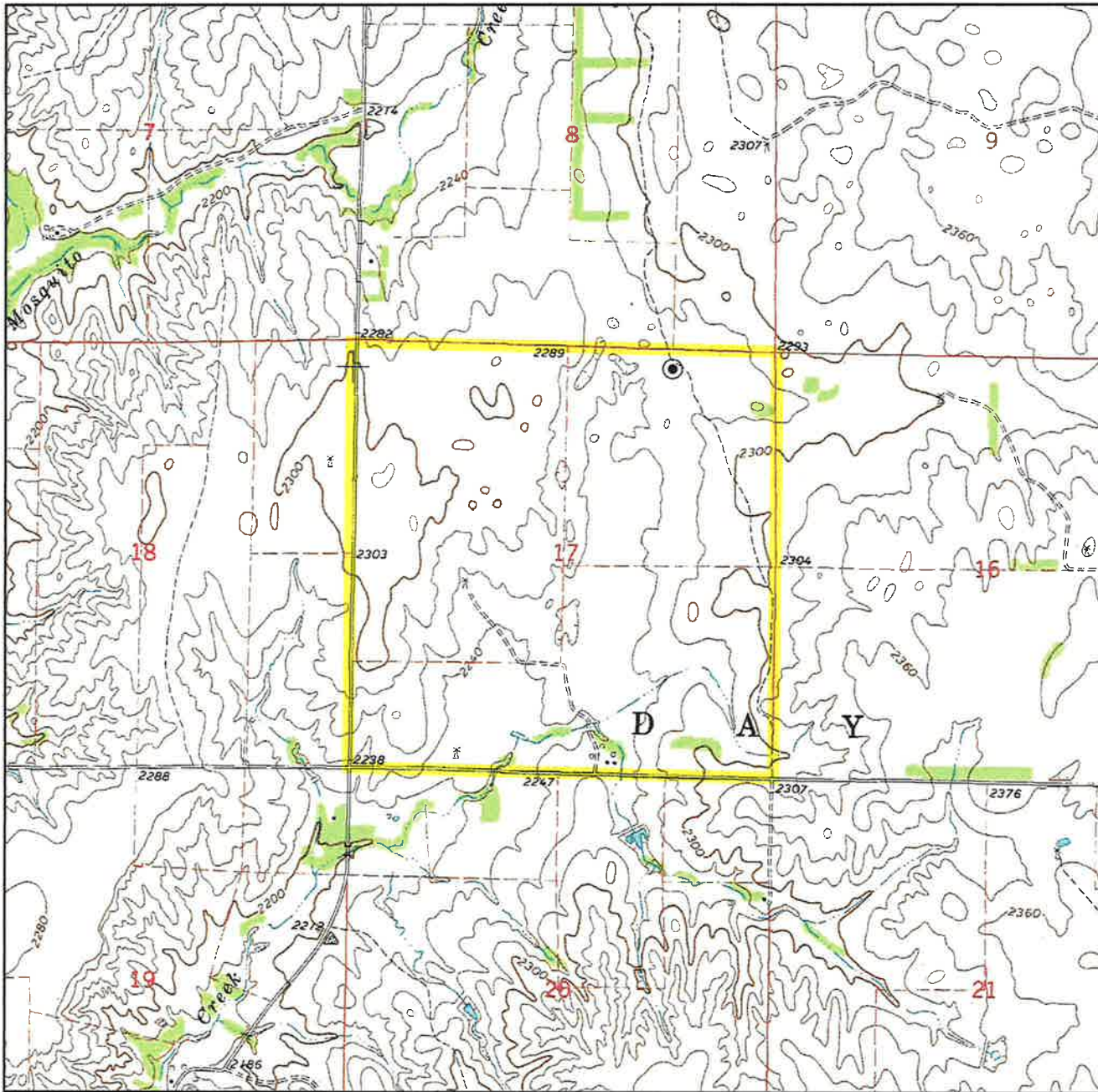
TOPOGRAPHIC LAND SURVEYORS OF OKLAHOMA

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. 17 Twp. 18N Rng. 24W IM

County ELLIS State OK

Operator EOG RESOURCES, INC.

Description 250'FNL-1290'FEL

Lease HURST-BOUGHAN 08#3H

Elevation 2266' Gr. at Stake

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

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.



TOPOGRAPHIC
LOYALTY INNOVATION LEGACY

LAND SURVEYORS OF OKLAHOMA

Sept. 19, 2017

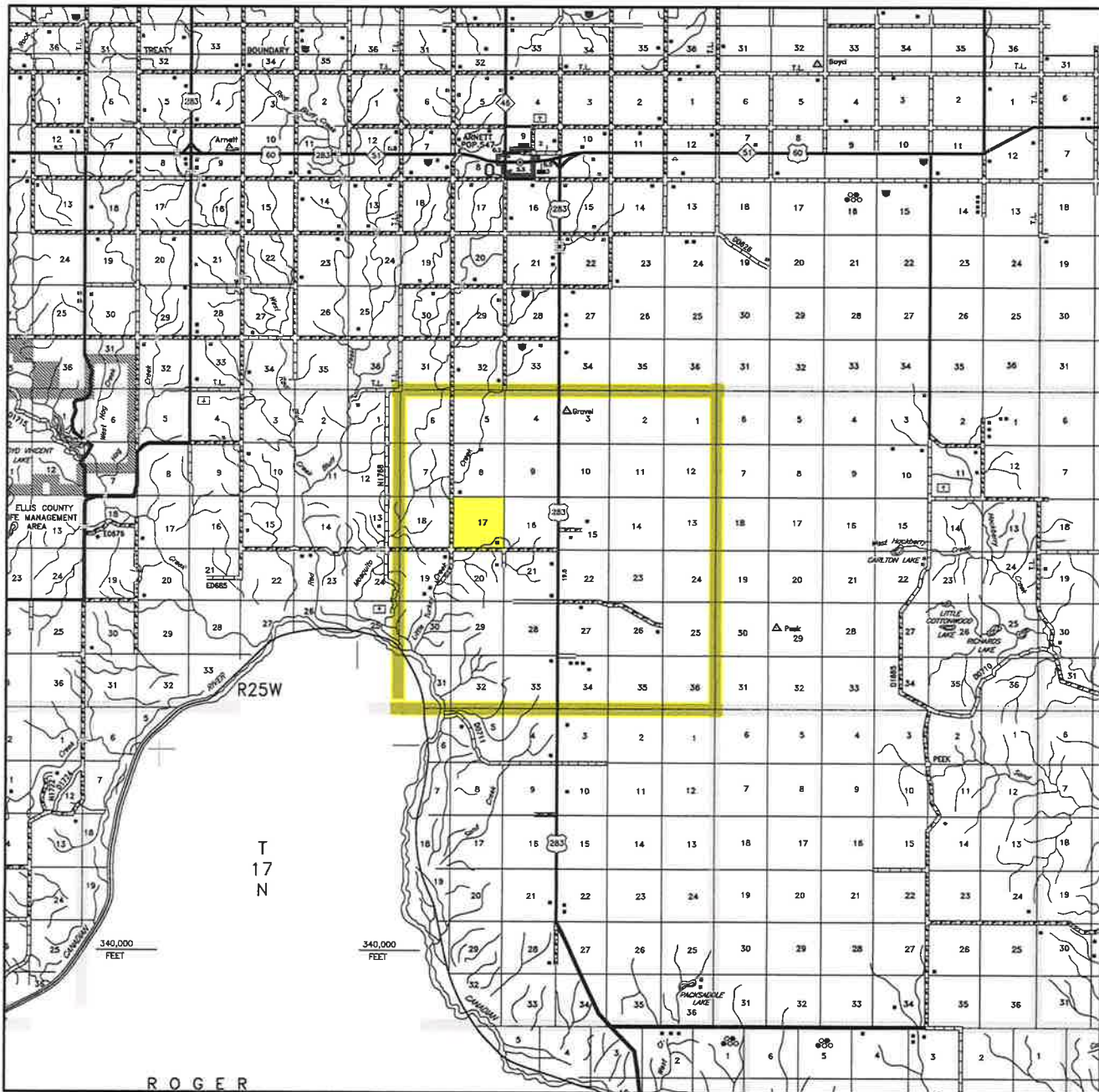
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VICINITY MAP



Scale: 1" = 3 Miles

Sec. 17 Twp. 18N Rng. 24W IM

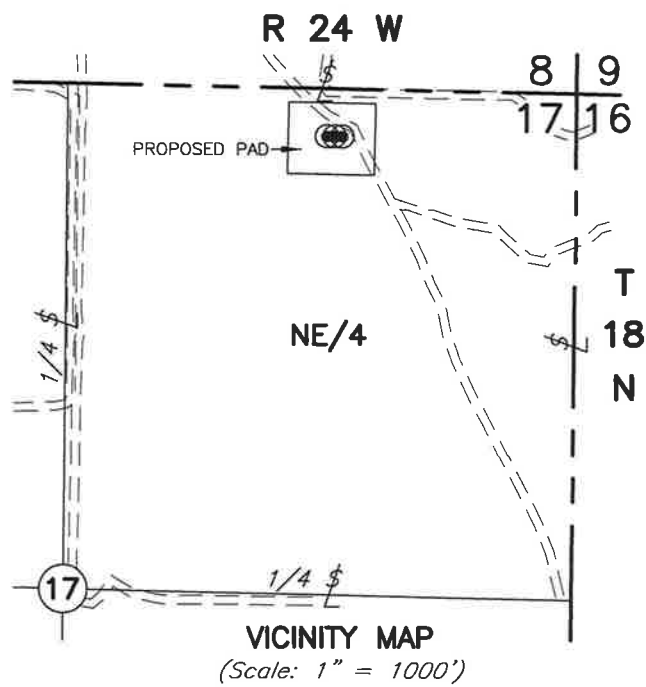
County ELLIS State OK

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 17, T18N – R24W
ELLIS COUNTY, OKLAHOMA

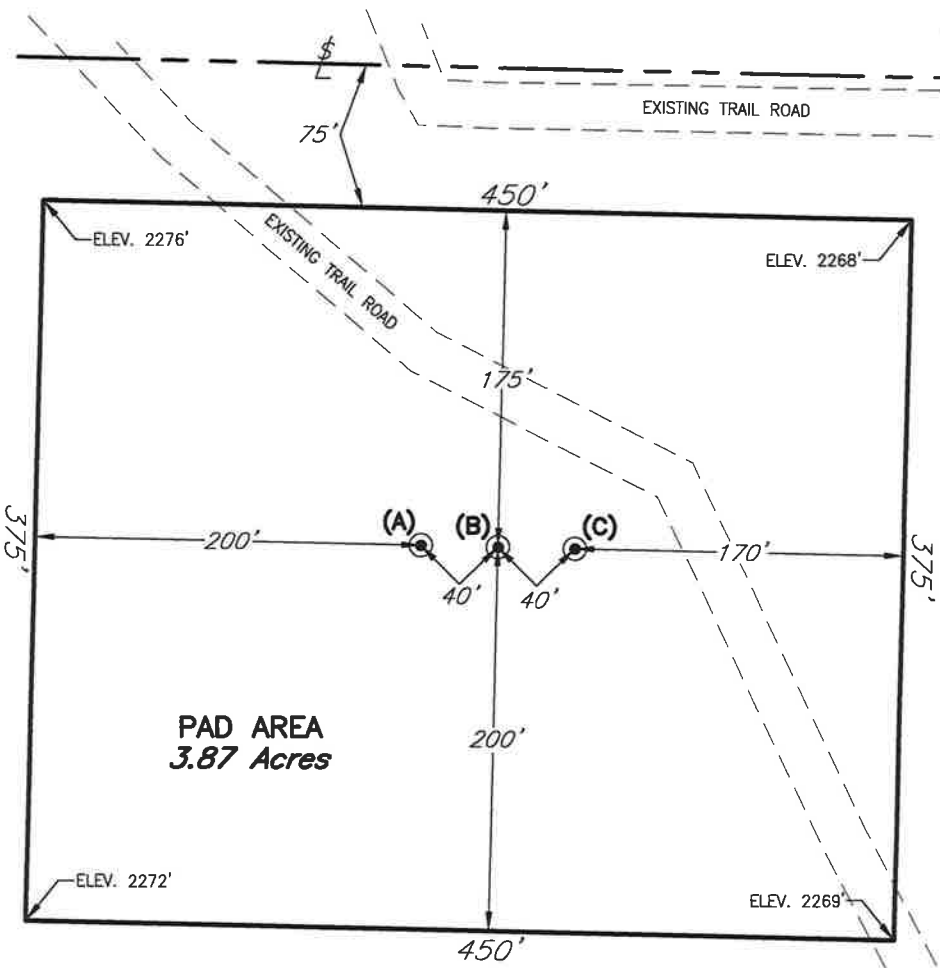
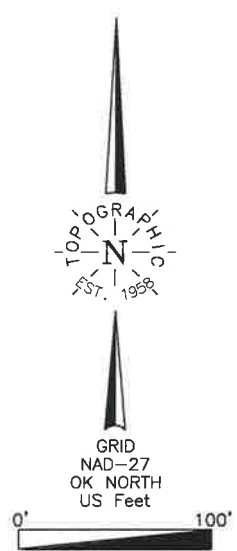


(A) EOG RESOURCES, INC.
HURST-BOUGHAN 08#3H
250' FNL-1290' FEL
Elev. 2266' Gr.

(B) EOG RESOURCES, INC.
HURST-BOUGHAN 0805#4H
250' FNL-1250' FEL
Elev. 2267' Gr.

(C) EOG RESOURCES, INC.
HURST-BOUGHAN 08#5H
250' FNL-1210' FEL
Elev. 2267' Gr.

SECTION 17
NE/4



NOTE:

The information shown herein is
for construction purposes ONLY.

REVISION	DATE	BY
SUR. BY:	DJ 9-19-17	
DRAWN BY:	TR	
APPROVED BY:	TH	

This plat was prepared exclusively for
EOG RESOURCES, INC.
and may not be relied upon by any other entity without the written consent of Topographic Land Surveyors of Oklahoma
SURVEYING AND MAPPING BY
TOPOGRAPHIC LAND SURVEYORS OF OKLAHOMA
6709 N. Classen, Okla. City, OK, 73116 (405) 843-4847
Certificate of Authorization No. 1293 LS

SCALE:	1"=100'
DATE:	9-20-17
INVOICE NO.:	281329
FILE NAME:	L2212B.DWG
DWG NO.:	105048-L2-212-B
SHEET	1 OF 1