

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

API NUMBER: 045 23760 A

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

Horizontal Hole Oil & Gas

Amend reason: OCC CORRECTION FOR WELL NUMER

AMEND PERMIT TO DRILL

WELL LOCATION: Sec: 19 Twp: 18N Rge: 24W County: ELLIS
SPOT LOCATION: SE NW NW NE FEET FROM QUARTER: FROM NORTH FROM EAST
SECTION LINES: 450 2275

Lease Name: BROWN 18 Well No: 4H Well will be 450 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

BRENDA AND GEORGE GIFFIN
14078 W 146TH ST SOUTH
SAPULPA OK 74066

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: Increased Density Orders:

Pending CD Numbers: 201805094 201805096 Special Orders:

Total Depth: 15605 Ground Elevation: 2289 Surface Casing: 1500 Depth to base of Treatable Water-Bearing FM: 530

Under Federal Jurisdiction: No Fresh Water Supply Well Drilled: No Surface Water used to Drill: Yes

PIT 1 INFORMATION

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 BED AQUIFER

Pit Location Formation: CLOUD CHIEF

Approved Method for disposal of Drilling Fluids:

- D. One time land application -- (REQUIRES PERMIT) PERMIT NO: 18-34643
- E. Haul to Commercial pit facility: Sec. 31 Twn. 12N Rng. 8W Cnty. 17 Order No: 587498
- 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 18 Twp 18N Rge 24W County ELLIS

Spot Location of End Point: NE NW NE NW

Feet From: NORTH 1/4 Section Line: 165

Feet From: WEST 1/4 Section Line: 1870

Depth of Deviation: 9100

Radius of Turn: 983

Direction: 350

Total Length: 4960

Measured Total Depth: 15605

True Vertical Depth: 9350

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

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

PENDING CD - 201805094

8/14/2018 - G58 - 18-18N-9W
X586080 MRMN
2 WELLS
NO OP. NAMED
REC 7/23/2018 (FOREMAN)

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.

Category	Description
PENDING CD - 201805096	8/14/2018 - G58 - (I.O.) 18-18N-24W X586080 MRMN COMPL. INT. NCT 165' FSL, NCT 2400' FWL, NCT 165' FNL, NCT 1870' FWL NO OP. NAMED REC 7/23/2018 (FOREMAN)
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)

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.

TOPOGRAPHIC LAND SURVEYORS OF OKLAHOMA

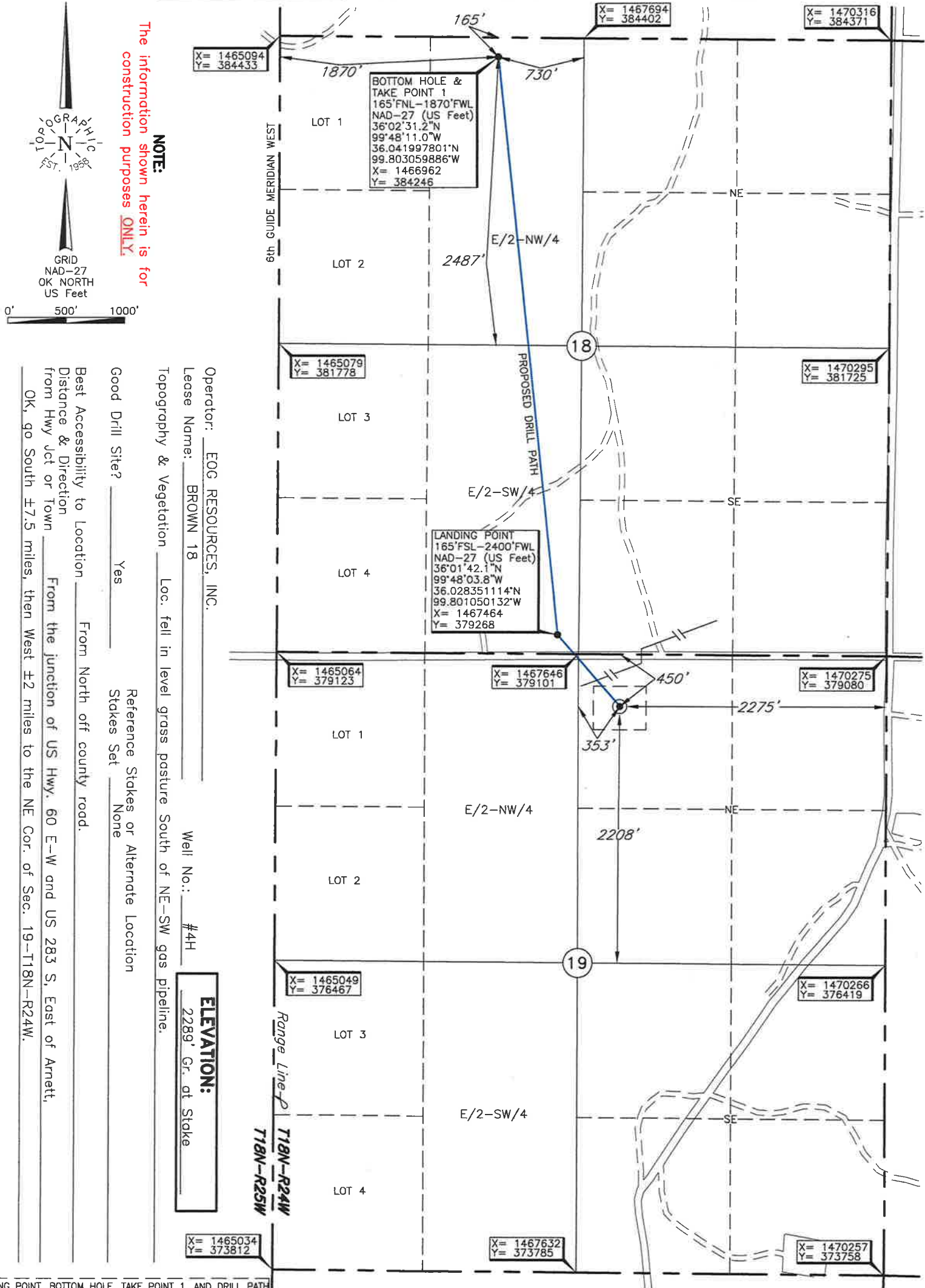
13800 WIRELESS WAY, OKLA. CITY, OKLA. 73134 * LOCAL (405) 843-4847 * OUT OF STATE (800) 654-3219
 Certificate of Authorization No. 1293 LS

045-23760

ELLIS

County, Oklahoma

450'FNL-2275'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 level grass pasture South of NE-SW gas pipeline.
 Good Drill Site? Yes
 Reference Stakes or Alternate Location: Stakes Set
 Well No.: #4H
ELEVATION: 2289' Gr. at Stake

Best Accessibility to Location: From North of county road.
 Distance & Direction: From the junction of US Hwy. 60 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.

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

Date of Drawing: May 30, 2018

Invoice # 294305A Date Staked: May 23, 2018

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°01'36.0"N
 LONG: 99°47'57.1"W
 LAT: 36.026676872°N
 LONG: 99.799206080°W
 STATE PLANE COORDINATES: (US Feet)
 ZONE: OK NORTH
 X: 1467998
 Y: 378648

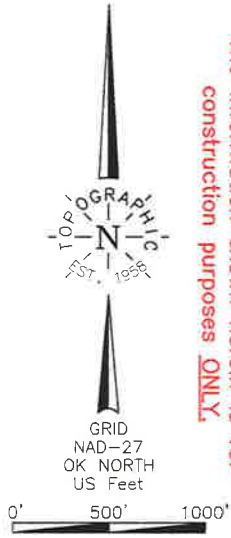
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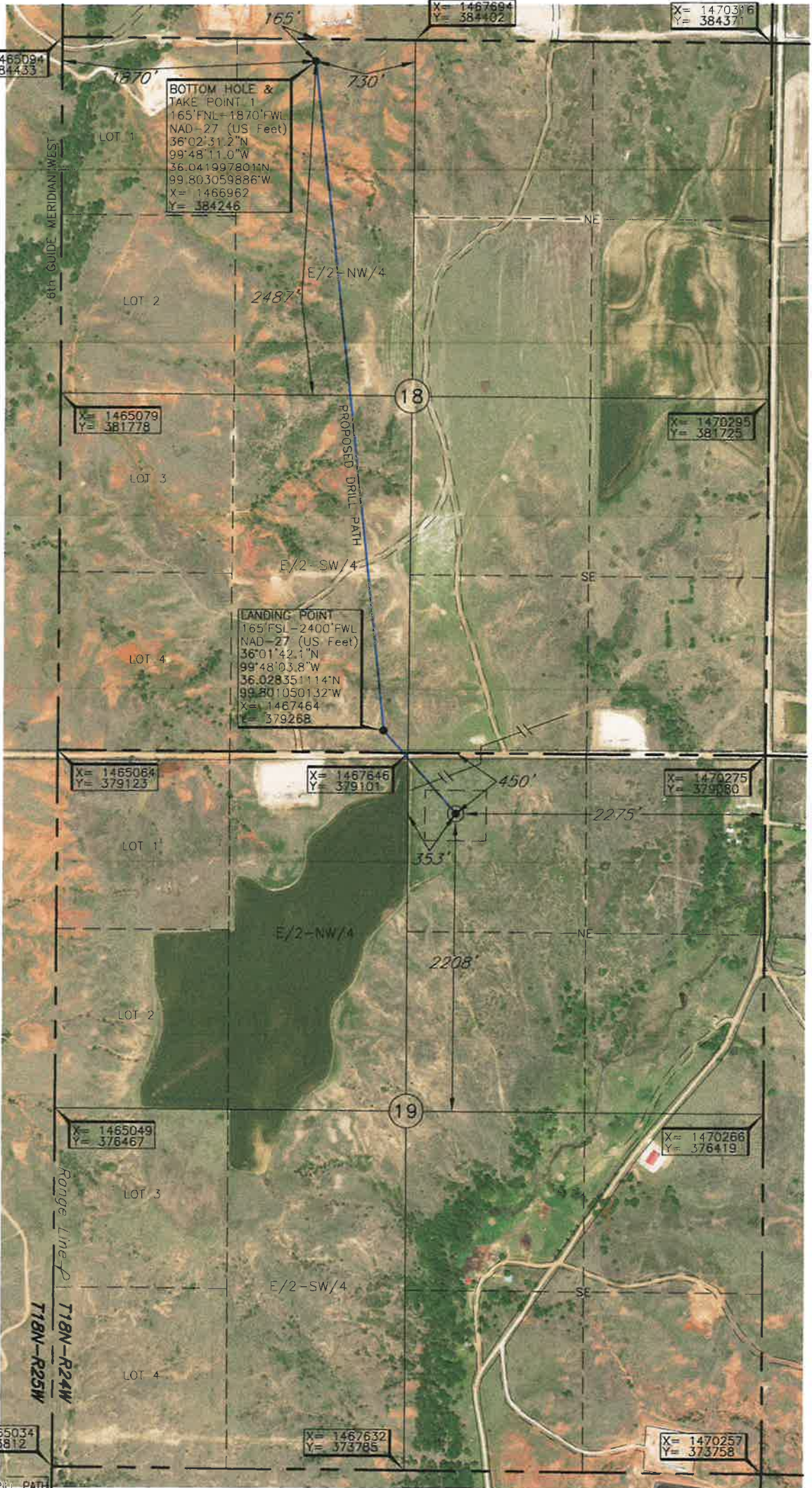
ELLIS

County, Oklahoma

450'FNL-2275'FEL Section 19 Township 18N Range 24W I.M.



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BOTTOM HOLE & TAKE POINT 1
 165'FNL-1870'FWL
 NAD-27 (US Feet)
 36°02'31.2"N
 99°48'11.0"W
 36.0419978011N
 99.8030598866W
 X = 1466962
 Y = 384246

LANDING POINT
 165'FSL-2400'FWL
 NAD-27 (US Feet)
 36°01'42.1"N
 99°48'03.8"W
 36.028351114N
 99.801050132W
 X = 1467464
 Y = 379268

Operator: EOG RESOURCES, INC.
 Lease Name: BROWN 18

Well No.: #4H
ELEVATION:
2289' Gr. at Stake

Topography & Vegetation Loc. fell in level grass pasture South of NE-SW gas pipeline.

Good Drill Site? Yes Reference Stakes or Alternate Location None

Best Accessibility to Location From North of county road.

Distance & Direction From the junction of US Hwy. 60 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.

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

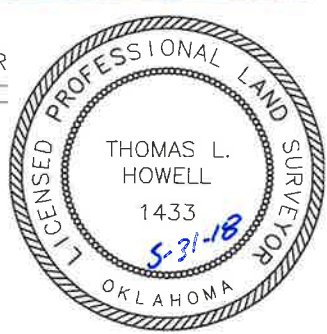
DATUM: NAD-27
 LAT: 36°01'36.0"N
 LONG: 99°47'57.1"W
 LAT: 36.026676872°N
 LONG: 99.799206080°W
 STATE PLANE COORDINATES: (US Feet)
 ZONE: OK NORTH
 X: 1467998
 Y: 378648

Date of Drawing: May 30, 2018
 Invoice # 294305A Date Staked: May 23, 2018 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

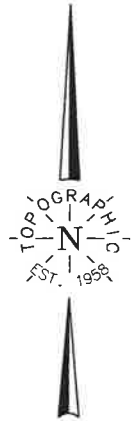
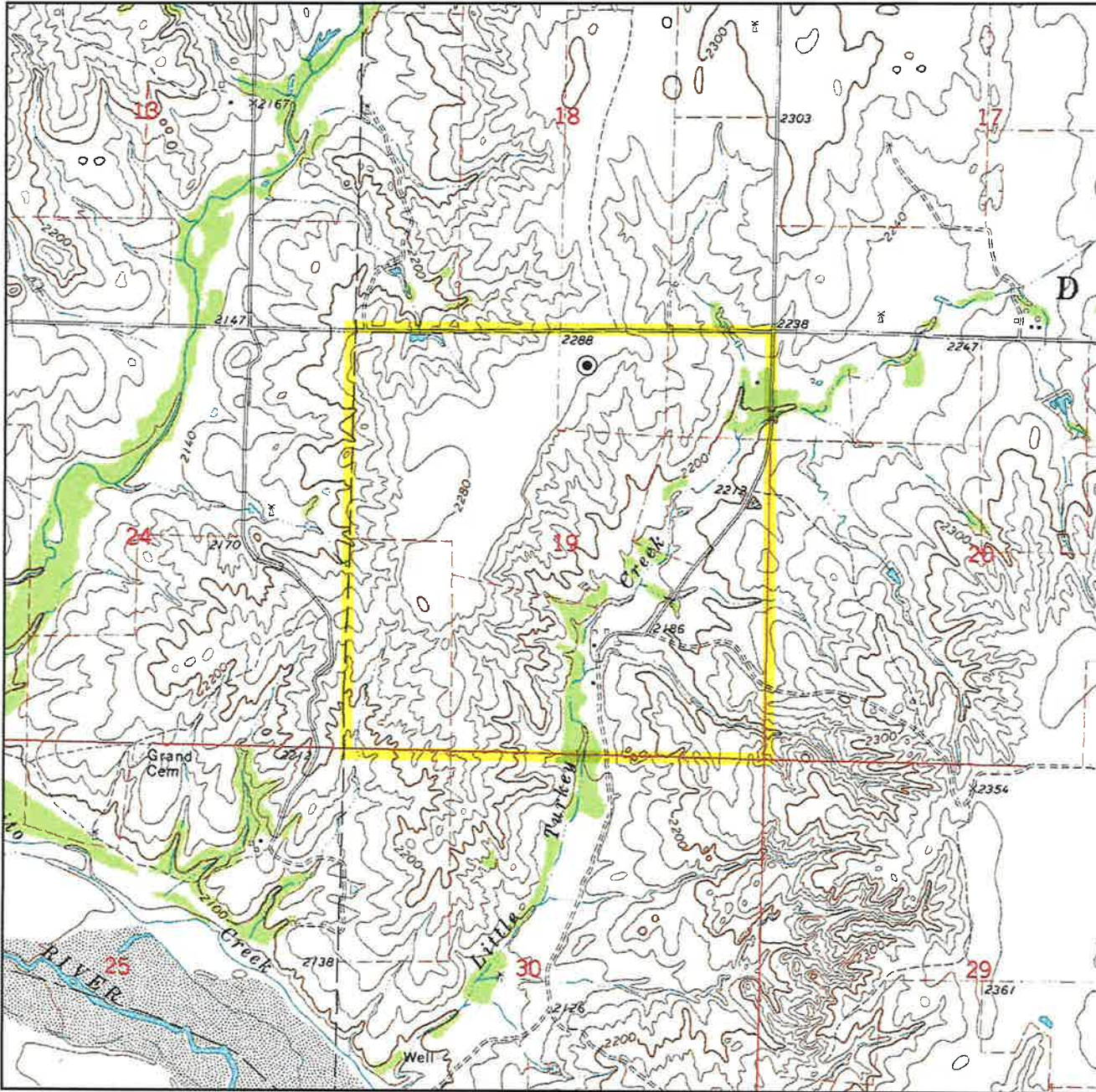
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TOPOGRAPHIC LAND SURVEYORS OF OKLAHOMA

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 450'FNL-2275'FEL

Lease BROWN 18 #4H

Elevation 2289' 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.



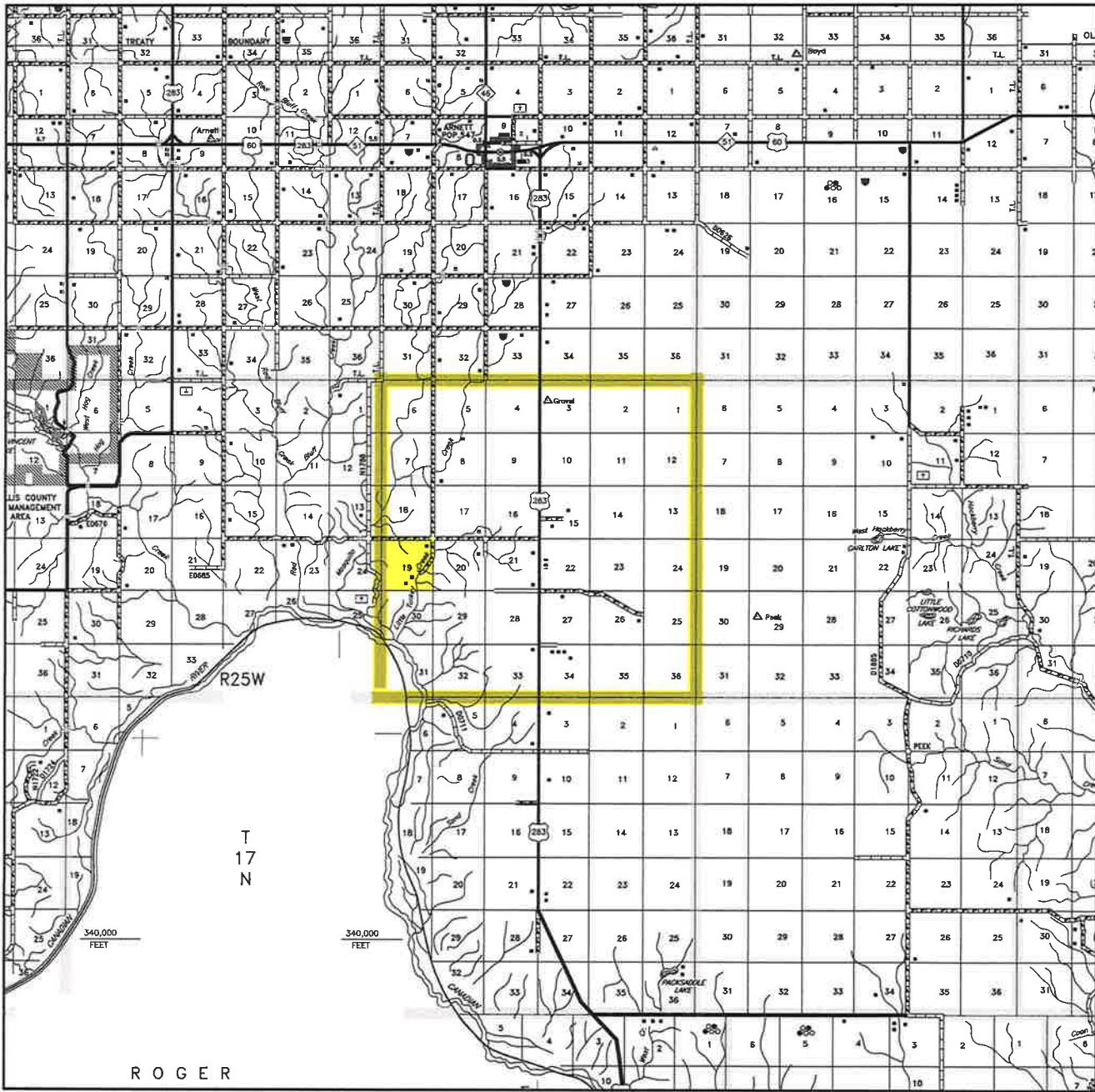
LAND SURVEYORS OF OKLAHOMA

May 23, 2018

TOPOGRAPHIC LAND SURVEYORS OF OKLAHOMA

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VICINITY MAP



Scale: 1" = 3 Miles

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

County ELLIS State OK

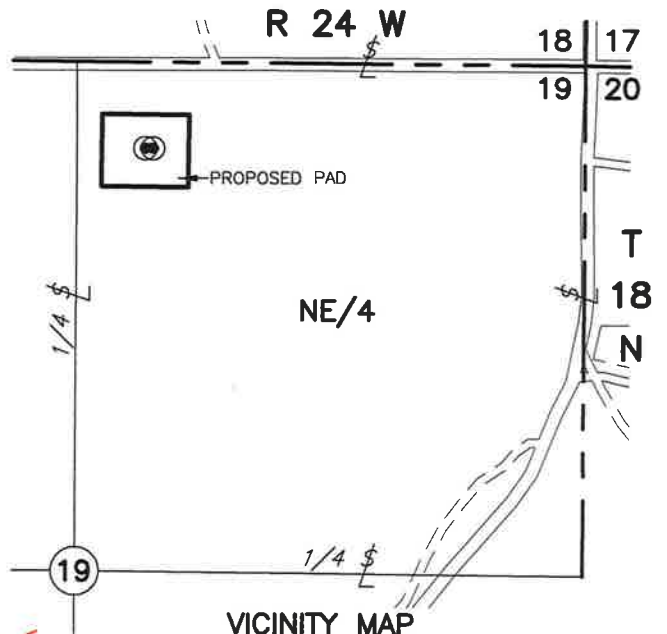
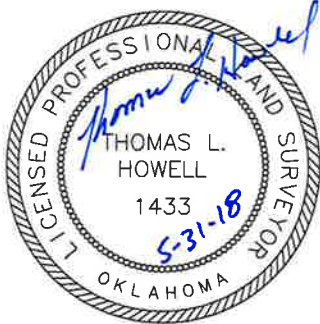
Operator EOG RESOURCES, INC.



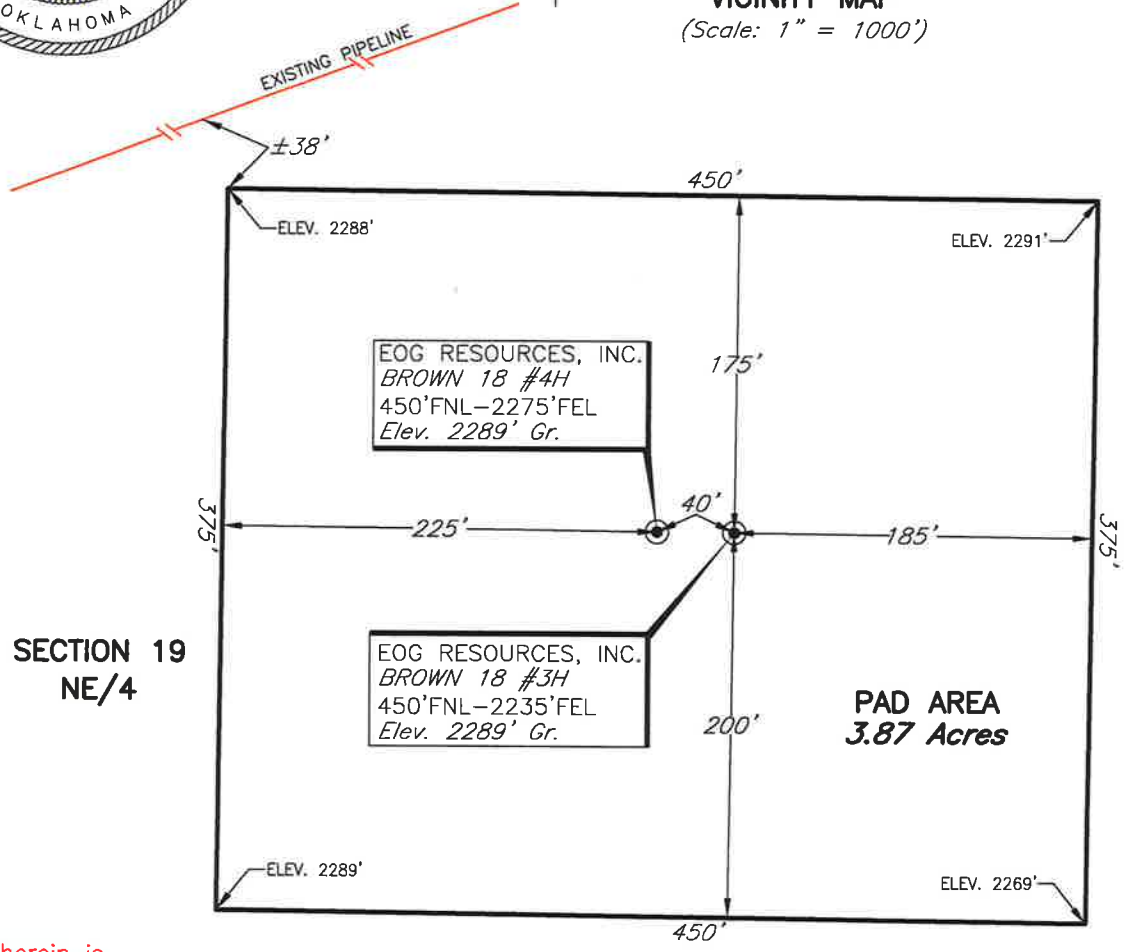
LAND SURVEYORS OF OKLAHOMA

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



VICINITY MAP
(Scale: 1" = 1000')



GRID
NAD-27
OK NORTH
US Feet

NOTE:

The information shown herein is for construction purposes ONLY.

				This plat was prepared exclusively for		SCALE: 1"=100'	
				EOG RESOURCES, INC.		DATE: 5/30/18	
				and may not be relied upon by any other entity without the written consent of Topographic Land Surveyors of Oklahoma		INVOICE NO.: 294305	
NO.	REVISION	DATE	BY	SURVEYING AND MAPPING BY TOPOGRAPHIC LAND SURVEYORS OF OKLAHOMA 13800 Wireless Way, Okla. City, OK. 73134 (405) 843-4847 Certificate of Authorization No. 1293 LS		FILE NAME: L2272A.DWG	
SUR. BY:	DJ	5/23/18				DWG NO.: 105048-L2-272-A	
DRAWN BY:	TR					SHEET 1 OF 1	
APPROVED BY:	TH						