

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

API NUMBER: 087 22129

Approval Date: 04/20/2018

Expiration Date: 10/20/2018

Horizontal Hole Oil & Gas

PERMIT TO DRILL

WELL LOCATION: Sec: 04 Twp: 8N Rge: 4W

County: MCCLAIN

SPOT LOCATION: NE NE NW NE

FEET FROM QUARTER: FROM NORTH FROM EAST

SECTION LINES: 282 1480

Lease Name: LAUBHAN

Well No: 0409 1H

Well will be 282 feet from nearest unit or lease boundary.

Operator Name: EOG RESOURCES INC

Telephone: 4052463212

OTC/OCC Number: 16231 0

EOG RESOURCES INC
PO BOX 4362
OKLAHOMA CITY, OK 73112-1483

LAUBHAN FAMILY LLC
PO BOX 432
C/O JUDITH LAUBHAN FEHLMANN, CO-TRUSTEE
BROOMFIELD CO 80038

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

	Name	Depth	Name	Depth
1	MISSISSIPPI	9100	6	
2	WOODFORD	9160	7	
3	HUNTON	9300	8	
4			9	
5			10	

Spacing Orders: 201802520
201802521

Location Exception Orders:

Increased Density Orders:

Pending CD Numbers: 201802522
201802523

Special Orders:

Total Depth: 19629

Ground Elevation: 1223

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: 5000 Average: 3000

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: DUNCAN

D. One time land application -- (REQUIRES PERMIT) PERMIT NO: 18-34155

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: DUNCAN

HORIZONTAL HOLE 1

Sec 09 Twp 8N Rge 4W County MCCLAIN

Spot Location of End Point: S2 SE SE SE

Feet From: SOUTH 1/4 Section Line: 165

Feet From: EAST 1/4 Section Line: 330

Depth of Deviation: 8848

Radius of Turn: 388

Direction: 180

Total Length: 10172

Measured Total Depth: 19629

True Vertical Depth: 9428

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

Notes:

Category

Description

DEEP SURFACE CASING

4/4/2018 - 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

4/4/2018 - 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

4/4/2018 - G71 - PIT 1 & 2 - CLOSED SYSTEM=STEEL PITS PER OPERATOR REQUEST; PIT 1 - WBM & CUTTINGS TO BE SOIL FARMED; PIT 2 - OBM CUTTINGS TO R360 (ORDER # 587498) OR DEQ APPROVED FACILITY (SOUTHERN PLAINS LANDFILL, 3-5N-6W, GRADY CO., # 3526013); PIT 2 - OBM TO VENDOR

PENDING CD - 201802520

4/11/2018 - G58 - (E.O.)(640)(HOR) 4-8N-4W
EST MSSP, WDFD, HNTN
COMPL. INT. (MSSP, HNTN) NLT 660' FB
COMPL. INT. (WDFD) NLT 165' FNL & FSL, NLT 330' FEL & FWL
(COEXIST SP ORDER 594544 MSSP, WDFD, HNTN)
REC 4/20/2018 (THOMAS)

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 - 201802521	4/11/2018 - G58 - (E.O.)(640)(HOR) 9-8N-4W EST MSSP, WDFD, HNTN COMPL. INT. (MSSP, HNTN) NLT 660' FB COMPL. INT. (WDFD) NLT 165' FNL & FSL, NLT 330' FEL & FWL (COEXIST SP ORDER 588047 MSSP, WDFD, HNTN) REC 4/20/2018 (THOMAS)
PENDING CD - 201802522	4/11/2018 - G58 - (E.O.) 4 & 9-8N-4W EST MULTIUNIT HORIZONTAL WELL X201802520 MSSP, WDFD, HNTN (4-8N-4W) X201802521 MSSP, WDFD, HNTN (9-8N-4W) (MSSP, HNTN ARE ADJACENT COMMON SOURCE OF SUPPLY TO WDFD) 50% 4-8N-4W 50% 9-8N-4W NO OP. NAMED REC 4/20/2018 (THOMAS)
PENDING CD - 201802523	4/11/2018 - G58 - (E.O.) 4 & 9-8N-4W X201802520 MSSP, WDFD, HNTN (4-8N-4W) X201802521 MSSP, WDFD, HNTN (9-8N-4W) COMPL. INT. (4-8N-4W) NCT 165' FNL, NCT 0' FSL, NCT 330' FEL COMPL. INT. (9-8N-4W) NCT 0' FNL, NCT 165' FSL, NCT 330' FEL NO OP. NAMED REC 4/20/2018 (THOMAS)

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

087-22129

McCLAIN County, Oklahoma

282'FNL - 1480'FEL Section 4 Township 8N Range 4W I.M.

X 2114312
Y 680908

SE CORNER
SECTION 33
X 2114277
Y 680908

X 2111675
Y 680936

X 2109039
Y 680865

S/4 CORNER
SECTION 33
X 2111636
Y 680896

LANDING POINT
165'FNL - 330'FEL
NAD-27 (US Feet)
35°12'11.9"N
97°37'06.5"W
35.203311049°N
97.618483568°W
X 2113983
Y 680741

X 2109048
Y 678308

X 2114327
Y 678339

X 2109047
Y 675657

X 2111695
Y 675675

X 2114343
Y 675693

X 2109059
Y 673076

BOTTOM HOLE AND
TAKE POINT 1
165'FNL - 330'FEL
NAD-27 (US Feet)
35°10'31.3"N
97°37'06.5"W
35.175363163°N
97.618460627°W
X 2114028
Y 670569

X 2114350
Y 673050

X 2109071
Y 670374

X 2111713
Y 670392

X 2114358
Y 670406



GRID
NAD-27
OK SOUTH
US FEET
Scale:
1" = 1000'



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

Operator: EOG RESOURCES, INC.
 Lease Name: LAUBHAN 0409
 Topography & Vegetation Location fell on pad under construction. Existing Fc. ±195' East.
 Good Drill Site? Yes Alternate Stake Set None
 Best Accessibility to Location From North off county road.
 Distance & Direction From Blanchard, Ok., go ±0.5 mile North on St. Hwy. 76, then ±0.25 mile East, then ±4 miles North on St. Hwy. 76, then ±2 miles East to the NE corner of Section 4, T8N - R4W.
 Well No.: #1H
 ELEVATION: 1228' Gr. at Stake

NOTE:

The information shown herein is for construction purposes ONLY.

Date of Drawing: April 13, 2018

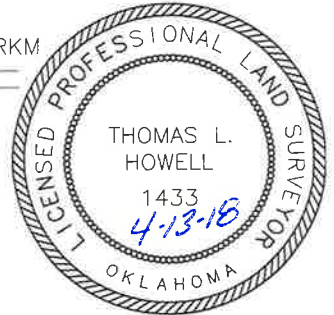
Invoice # 292014 Date Staked: April 12, 2018

RKM

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: 35°12'10.8"N
 LONG: 97°37'20.4"W
 STATE PLANE COORDINATES (US FEET):
 ZONE: OK SOUTH
 X: 2112833
 Y: 680619

This information was gathered with a GPS receiver with 1 foot horizontal accuracy.

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

McCLAIN County, Oklahoma

282'FNL - 1480'FEL Section 4 Township 8N Range 4W I.M.

X 2114312
Y 680908

SE CORNER
SECTION 33
X 2114277
Y 680908

X 2111675
Y 680896

X 2109039
Y 680885

S/4 CORNER
SECTION 33
X 2111636
Y 680896

GRID
NAD-27
OK SOUTH
US FEET
Scale:
1" = 1000'



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

X 2109048
Y 678308

X 2114327
Y 678339

Operator: EOG RESOURCES, INC.
 Lease Name: LAUBHAN 0409
 Topography & Vegetation Location: fell on pad under construction. Existing Fc. ±195' East.
 Good Drill Site? Yes
 Best Accessibility to Location: From North off county road.
 Distance & Direction from Hwy Jct or Town: From Blanchard, Ok., go ±0.5 mile North on St. Hwy. 76, then ±0.25 mile East, then ±4 miles North on St. Hwy. 76, then ±2 miles East to the NE corner of Section 4, T8N - R4W.
 Well No.: #11H
 ELEVATION: 1228' Gr. at Stake

X 2109047
Y 675657

X 2111695
Y 675675

X 2114343
Y 675693

X 2109059
Y 673016

BOTTOM HOLE AND
TAKE POINT 1
165'FSL - 330'FEL
NAD-27 (US Feet)
35°10'31.3"N
97°37'06.5"W
35.175363163N
97.618460627W
X 2114028
Y 670569

X 2114350
Y 673050

X 2109071
Y 670374

X 2111713
Y 670392

X 2114358
Y 670406

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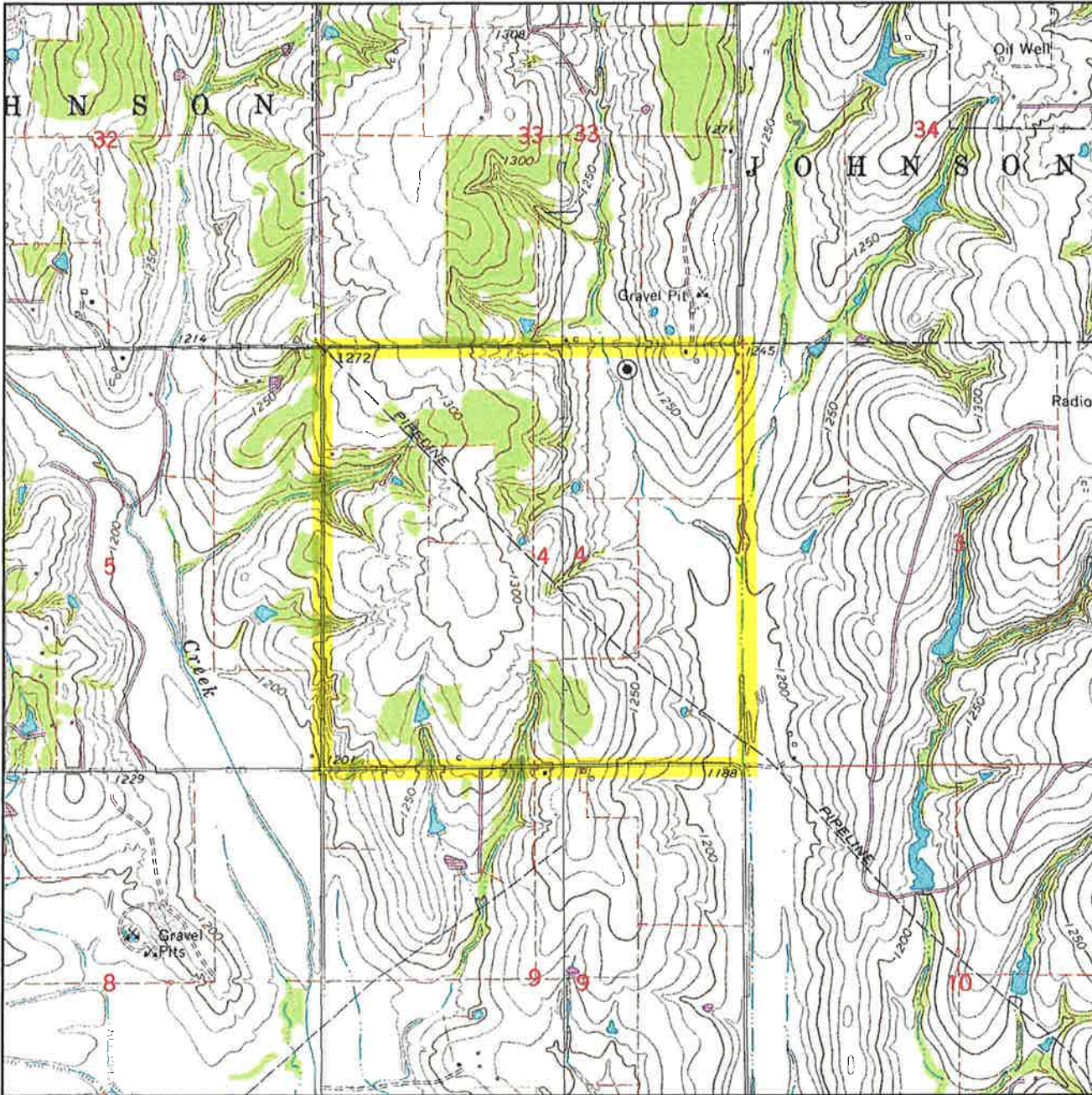


DATUM: NAD-27
 LAT: 35°12'10.8"N
 LONG: 97°37'20.4"W
 STATE PLANE COORDINATES (US FEET):
 ZONE: OK SOUTH
 X: 2112833
 Y: 680619

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. 4 Twp. 8N Rng. 4W I.M.

County McCLAIN State OK

Operator EOG RESOURCES, INC.

Description 282'FNL - 1480'FEL

Lease LAUBHAN 0409 #1H

Elevation 1228' 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.



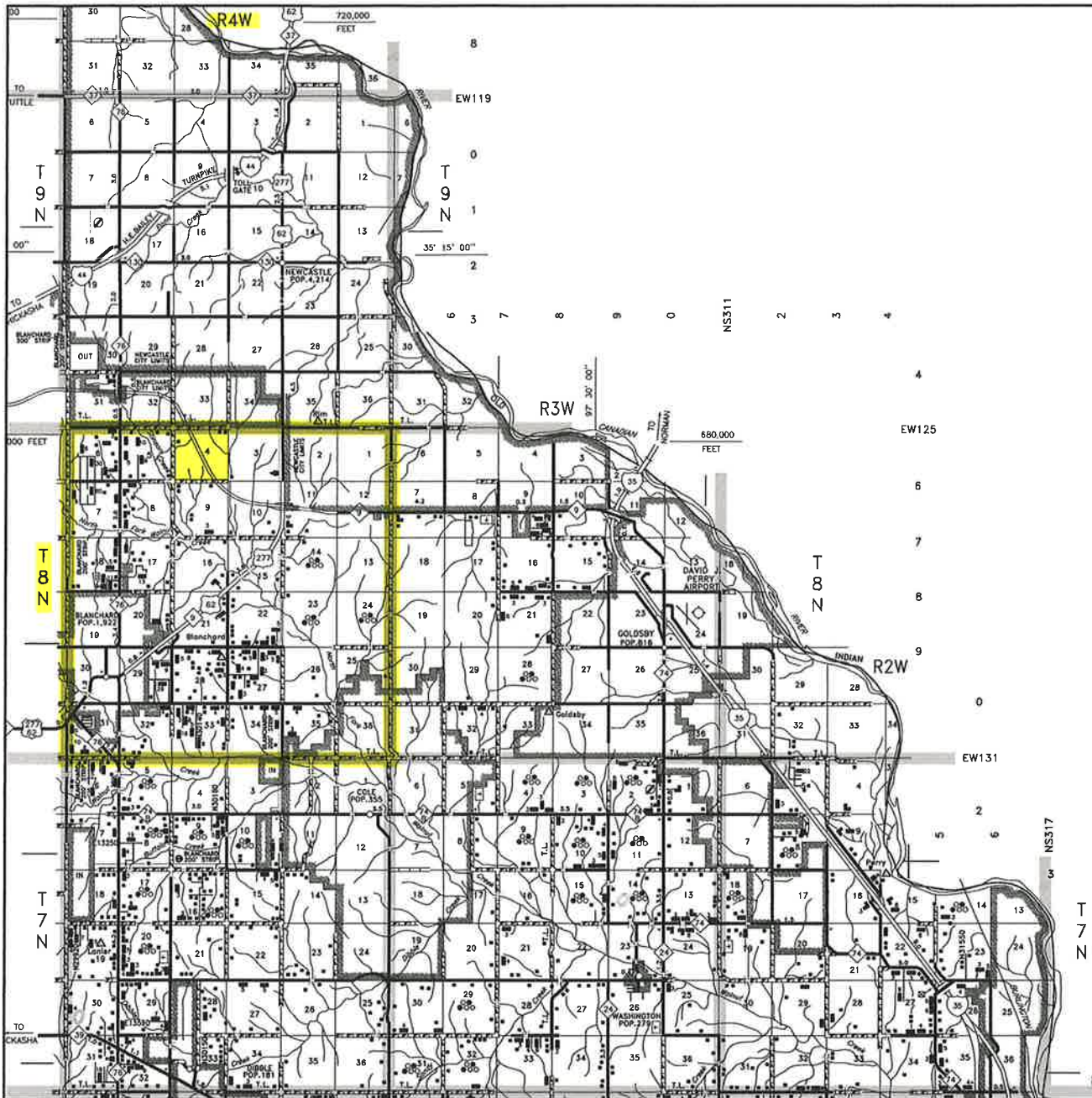
LAND SURVEYORS OF OKLAHOMA

April 12, 2018

TOPOGRAPHIC LAND SURVEYORS OF OKLAHOMA

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13800 Wireless Way, Oklahoma City, OK 73134 www.topographic.com
Telephone Numbers: Local (405) 843-4847 Toll Free (800) 654-3219

VICINITY MAP



Scale: 1" = 3 Miles

Sec. 4 Twp. 8N Rng. 4W I.M.

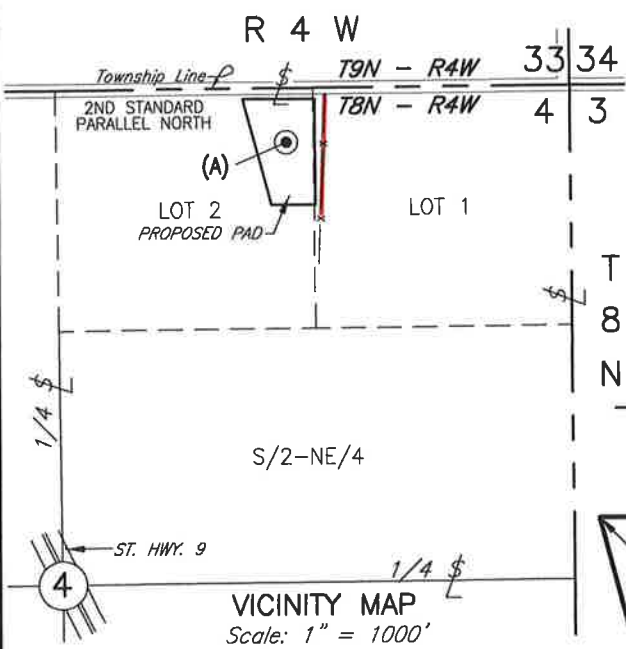
County McCLAIN State OK

Operator EOG RESOURCES, INC.

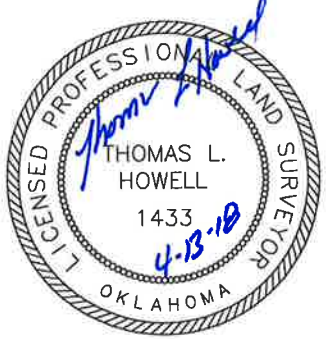
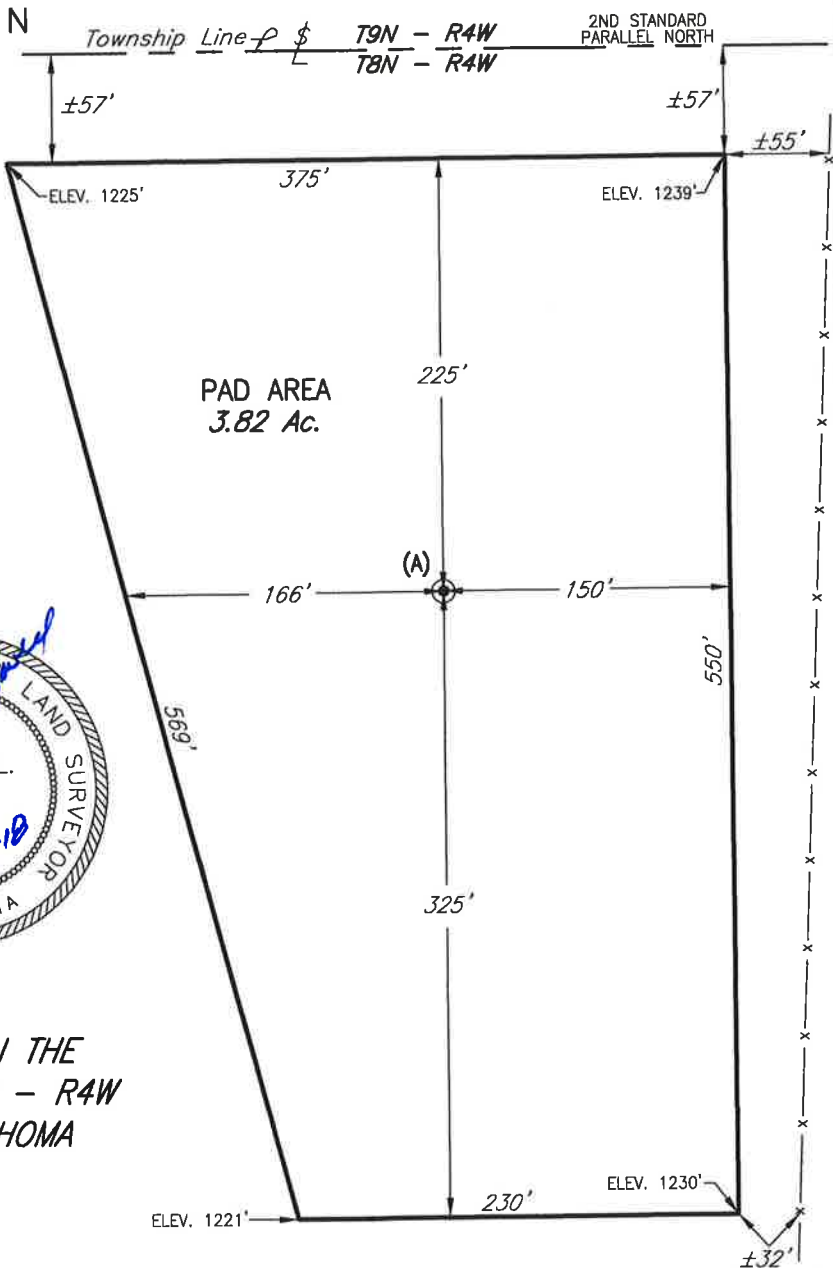


LAND SURVEYORS OF OKLAHOMA

T 8 N - R 4 W
(INDIAN MERIDIAN)



(A) EOG RESOURCES, INC.
Laubhan 0409 #1H
282'FNL - 1480'FEL
Elev. 1228' Gr.



PLAT SHOWING
PROPOSED PAD AREA IN THE
NE/4 OF SECTION 4, T8N - R4W
McCLAIN COUNTY, OKLAHOMA

- NOTES:
- The information shown herein is for construction purposes ONLY
 - Location does not lie within flood plain

NO.	REVISION	DATE	BY

SUR. BY: JM 4-12-18
DRAWN BY: RKM
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
13800 Wireless Way, Okla. City, OK. 73134 (405) 843-4847
Certificate of Authorization No. 1293 LS

SCALE:	1" = 100'
DATE:	4-13-18
INVOICE NO.:	292014
FILE NAME:	L4251A.DWG
DWG NO.:	105048-L4-251-A
SHEET	1 OF 1