

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

API NUMBER: 087 22168

Approval Date: 07/27/2018

Expiration Date: 01/27/2019

Horizontal Hole Oil & Gas

PERMIT TO DRILL

WELL LOCATION: Sec: 32 Twp: 9N Rge: 4W

County: MCCLAIN

SPOT LOCATION:

FEET FROM QUARTER: FROM SOUTH FROM WEST

SECTION LINES: 2356 2397

Lease Name: BANSHEE 2029

Well No: 1H

Well will be 2356 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

MONICA M COOPER 1/3RD
PO BOX 631
CYRIL OK 73029

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

	Name	Depth	Name	Depth
1	MISSISSIPPIAN	9230	6	
2	WOODFORD	9300	7	
3	HUNTON	9440	8	
4			9	
5			10	

Spacing Orders: No Spacing

Location Exception Orders:

Increased Density Orders:

Pending CD Numbers: 201804005
201804004
201804025
201804006

Special Orders:

Total Depth: 21159

Ground Elevation: 1270

Surface Casing: 1500

Depth to base of Treatable Water-Bearing FM: 670

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: 18-34707

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 20 Twp 9N Rge 4W County MCCLAIN

Spot Location of End Point: N2 NW NW NW

Feet From: NORTH 1/4 Section Line: 165

Feet From: WEST 1/4 Section Line: 330

Depth of Deviation: 9500

Radius of Turn: 900

Direction: 340

Total Length: 10244

Measured Total Depth: 21159

True Vertical Depth: 9500

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

Additional Surface Owner	Address	City, State, Zip
JAMES L MORGAN 1/3RD	1606 SURREY DRIVE	NORMAN, OK 73071
ANDREA ANDRADE 1/3RD	1100 MORGAN LANE	BLANCHARD, OK 73010

Notes:

Category

Description

DEEP SURFACE CASING

7/26/2018 - G58 - 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

7/26/2018 - G58 - 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

7/26/2018 - G58 - 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

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

087 22168 BANSHEE 2029 1H

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 - 201804004	7/26/2018 - G58 - (E.O.)(640)(HOR) 29-9N-4W VAC 138745 MISS, HNTN EST MSSP, WDFD, HNTN COMPL. INT. (MSSP, HNTN) NCT 660' FB COMPL. INT. (WDFD) NCT 165' FNL & FSL, NCT 330' FEL & FWL REC 7/17/2018 (THOMAS)
PENDING CD - 201804005	7/26/2018 - G58 - (E.O.)(640)(HOR) 20-9N-4W VAC 138745 MISS, HNTN EST MSSP, WDFD, HNTN COMPL. INT. (MSSP, HNTN) NCT 660' FB COMPL. INT. (WDFD) NCT 165' FNL & FSL, NCT 330' FEL & FWL REC 7/17/2018 (THOMAS)
PENDING CD - 201804006	7/26/2018 - G58 - (E.O.) 20 & 29-9N-4W EST MULTIUNIT HORIZONTAL WELL X201804004 MSSP, WDFD, HNTN (29-9N-4W) X201804005 MSSP, WDFD, HNTN (20-9N-4W) 50% 20-9N-4W 50% 29-9N-4W NO OP. NAMED REC 7/17/2018 (THOMAS)
PENDING CD - 201804025	7/26/2018 - G58 - (E.O.) 20 & 29-9N-4W X201804004 MSSP, WDFD, HNTN (29-9N-4W) X201804005 MSSP, WDFD, HNTN (20-9N-4W) COMPL. INT. (20-9N-4W) NCT 165' FNL, NCT 0' FSL, NCT 330' FWL COMPL. INT. (29-9N-4W) NCT 0' FNL, NCT 165' FSL, NCT 330' FWL NO OP. NAMED REC 7/17/2018 (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.

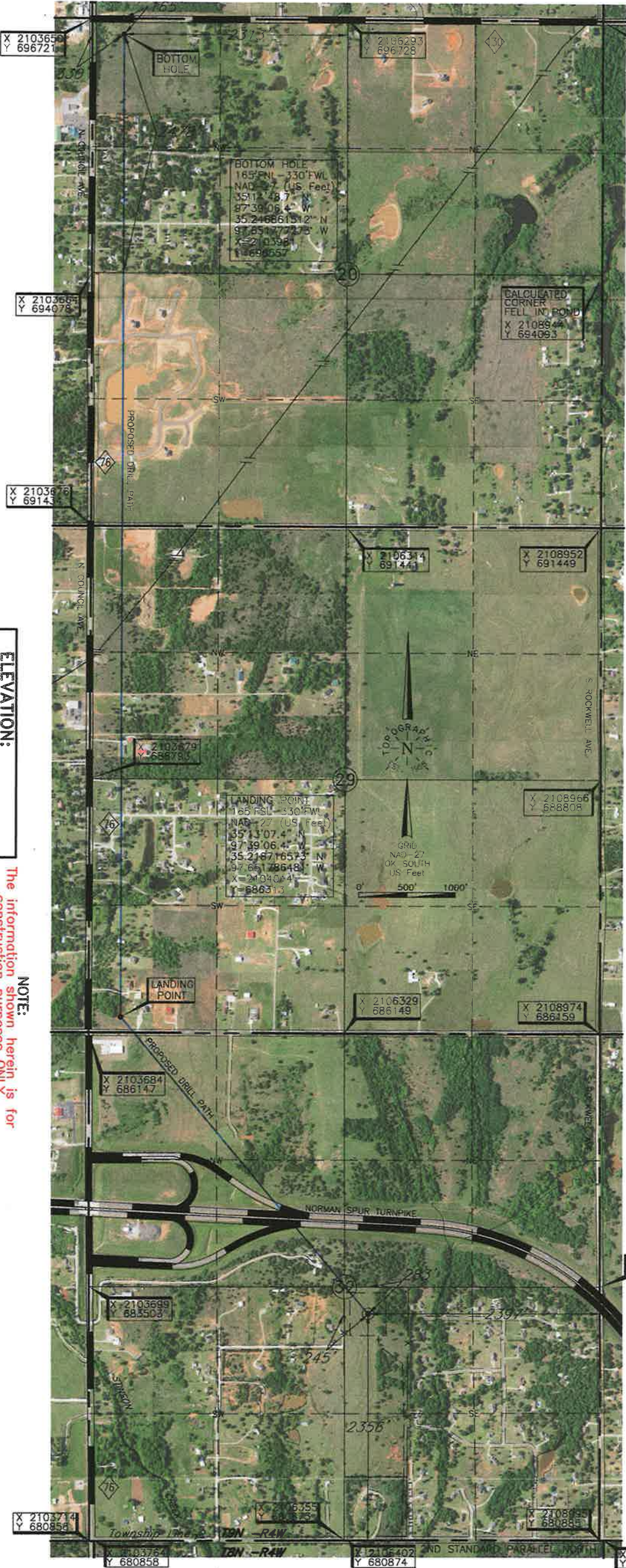
Rule 165: 10-3-4 (c) (7) (e) - The Operator shall give 24 Hours notice by telephone to the appropriate District Office of the Conservation Division as to when Surface Casing will be run.

13800 Wireless Way, Okla. City, OK. 73134 (405) 843-4847 * OUT OF STATE (800) 654-3219

County, Oklahoma

$$\frac{4W}{1.1M}$$

LANDING POINT, **BO**TOM HOLE AND DRILL PATH INFORMATION
PROVIDED BY OPERATOR LISTED, NOT SURVEYED.



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

NOTE:

Lease Name: BANSHEE 2029

Topography & Vegetation Loc. fell in terraced pasture, sloping up hill to the W-SW

Good Drill Site? Yes

Stakes Set None

Best Accessibility to Location _____ From West off county road _____

Distance & Direction _____

North of Blanchard, OK, go ± 0.5 mi. South on St. Hwy. 76, then ± 1.0 mi. East to the

SE Cor. of Sec. 32-T9N-R4W

ELEVATION:
1270' Gr. at Stake
DATUM: _____

DATUM: NAD-27

LAT: 35°12'36.8" N

LONG: 97°38'35.5" W

LAT: 35.210222730° N

LONG: 97.643202142° W

STATE PLANE

COORDINATES: (US Feet)

ZONE: OK SOUTH

X: 2106589

Y: 683230

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

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.

Date of Drawing: Jul. 18, 2018
Invoice # 298116 Date Staked: Jul. 12, 2018 AC

AC

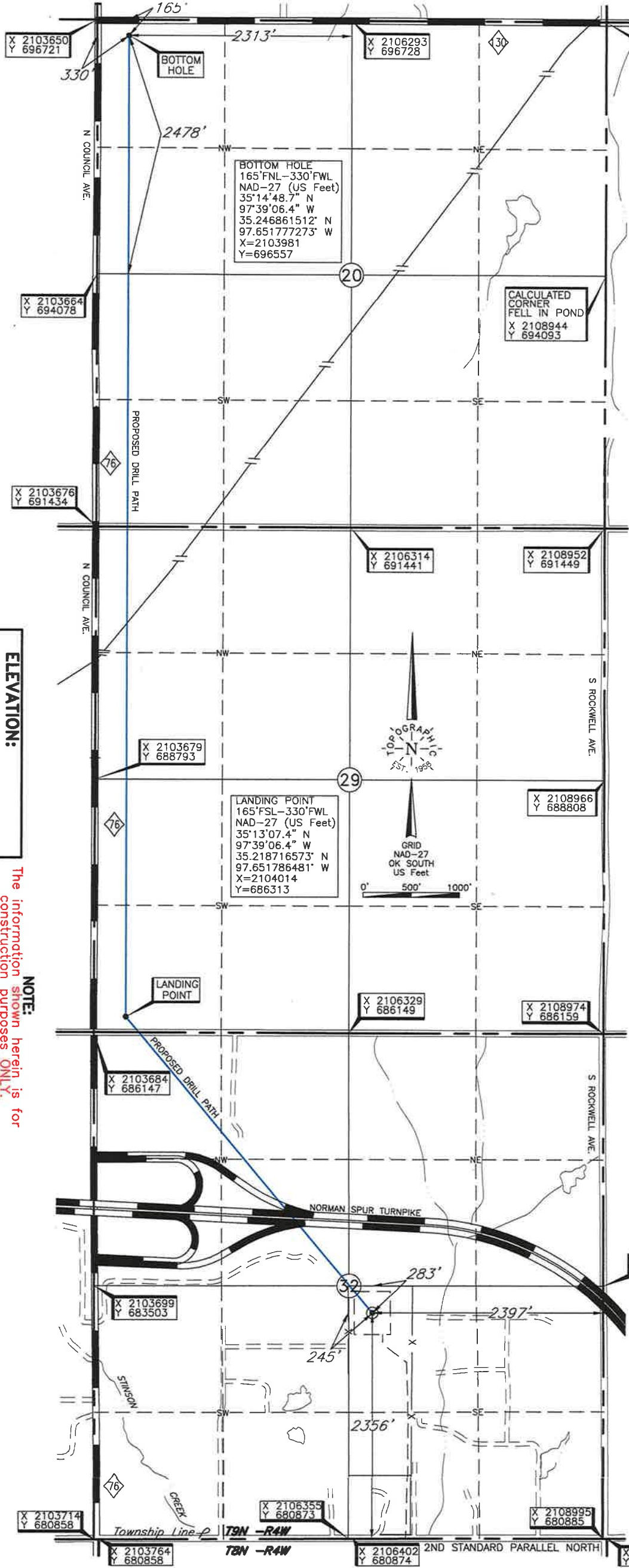
Oklahoma Lic. No. 1433

1433



2356' FSL - 2397' FEL Section 32 Township 9N Range 4W I.M.

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



ELEVATION:

1270' Gr. at Stake

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

Operator: EOG RESOURCES, INC.
Lease Name: BANSHEE 2029
Topography & Vegetation: Loc. fell in terraced pasture, sloping up hill to the W-SW
Good Drill Site? Yes
Best Accessibility to Location: From West off county road
Distance & Direction: From Jct. St. Hwy. 76 N-S and Norman Spur of H E Bailey Turnpike, North of Blanchard, OK, go ± 0.5 mi. South on St. Hwy. 76, then ± 1.0 mi. East to the SE Cor. of Sec. 32-T9N-R4W

Well No.: 1H
DATUM: NAD-27
LAT: 35°12'36.8" N
LONG: 97°38'35.5" W
LAT: 35°210222730" N
LONG: 97.643202142" W
STATE PLANE COORDINATES: (US Feet)
ZONE: OK SOUTH
X: 2106589
Y: 683230

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

Invoice # 298116 Date of Drawing: Jul. 18, 2018
Date Staked: Jul. 12, 2018
AC
CERTIFICATE: I, Thomas L. Howell, on Oklahoma Licensed Land Surveyor and an authorized agent of Topographic Land Surveyors of Oklahoma, do hereby certify to the information shown herein.



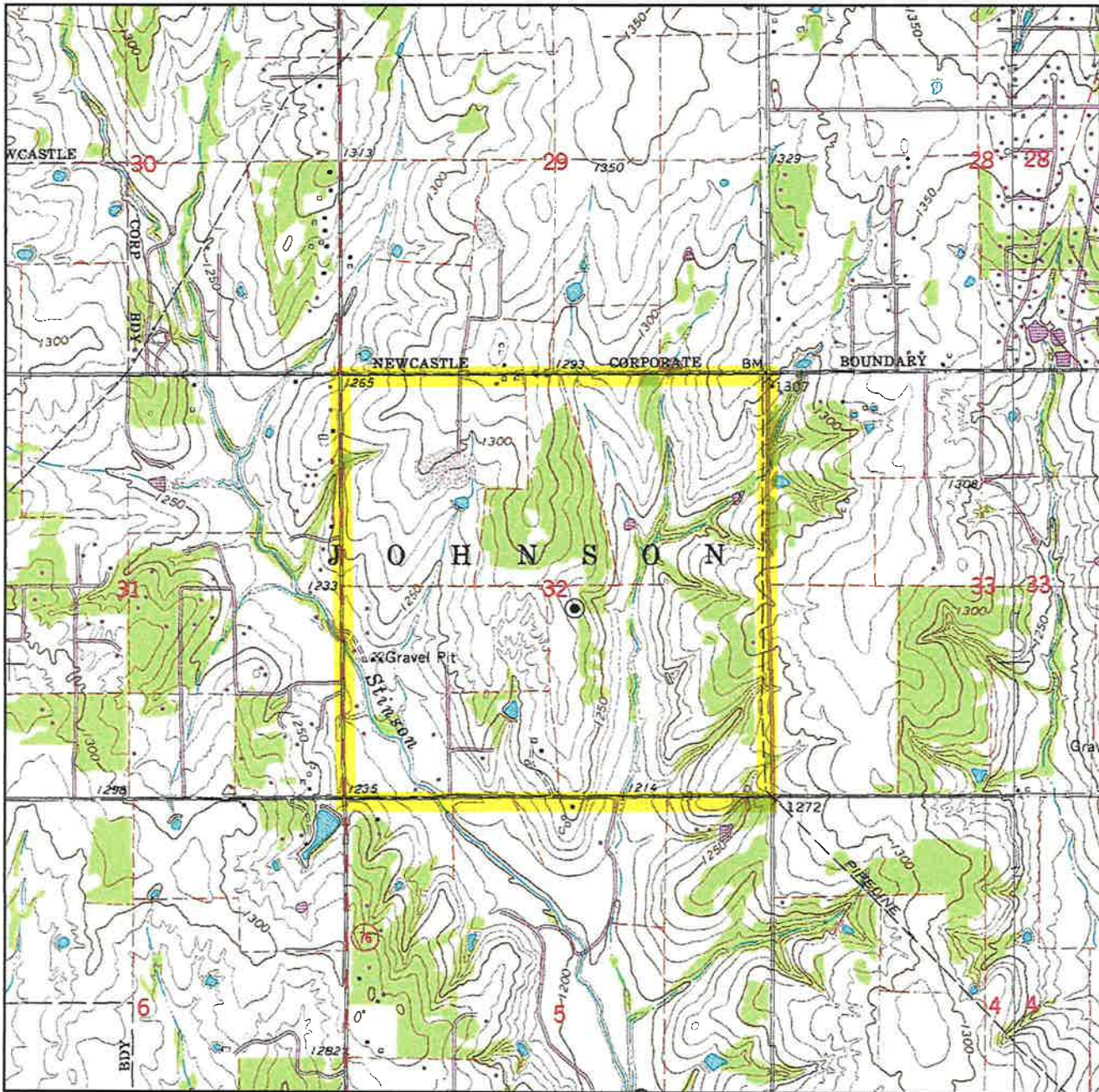
TOPOGRAPHIC LAND SURVEYORS OF OKLAHOMA

Surveying and Mapping for the Energy Industry

13800 Wireless Way, Okla. City, OK. 73134 www.topographic.com

Telephone Numbers: Local (405) 843-4847 Toll Free (800) 654-3219

LOCATION & ELEVATION VERIFICATION MAP



Sec. 32 Twp. 9N Rng. 4W IM

County MCCLAIN State OK

Operator EOG RESOURCES, INC.

Description 2356'FSL - 2397'FEL

Lease BANSHEE 2029 1H

Elevation 1270' 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

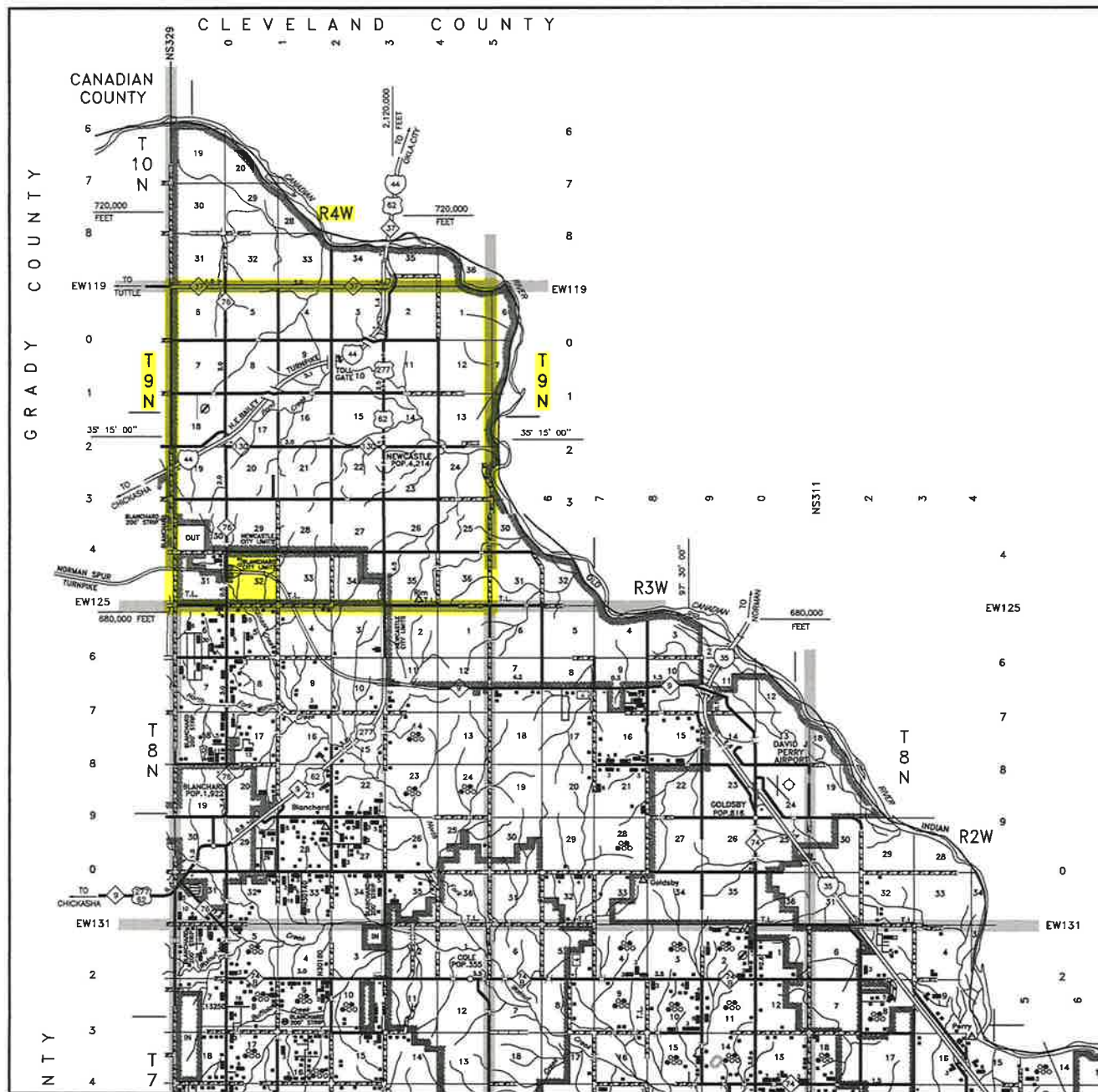
LAND SURVEYORS OF OKLAHOMA

Jul. 12, 2018

TOPOGRAPHIC LAND SURVEYORS OF OKLAHOMA

Surveying and Mapping for the Energy Industry
13800 Wireless Way, Okla. City, OK. 73134 www.topographic.com
Telephone Numbers: Local (405) 843-4847 Toll Free (800) 654-3219

VICINITY MAP



Scale: 1" = 3 Miles

Sec. 32 Twp. 9N Rng. 4W IM

County MCCLAIN State OK

Operator EOG RESOURCES, INC.

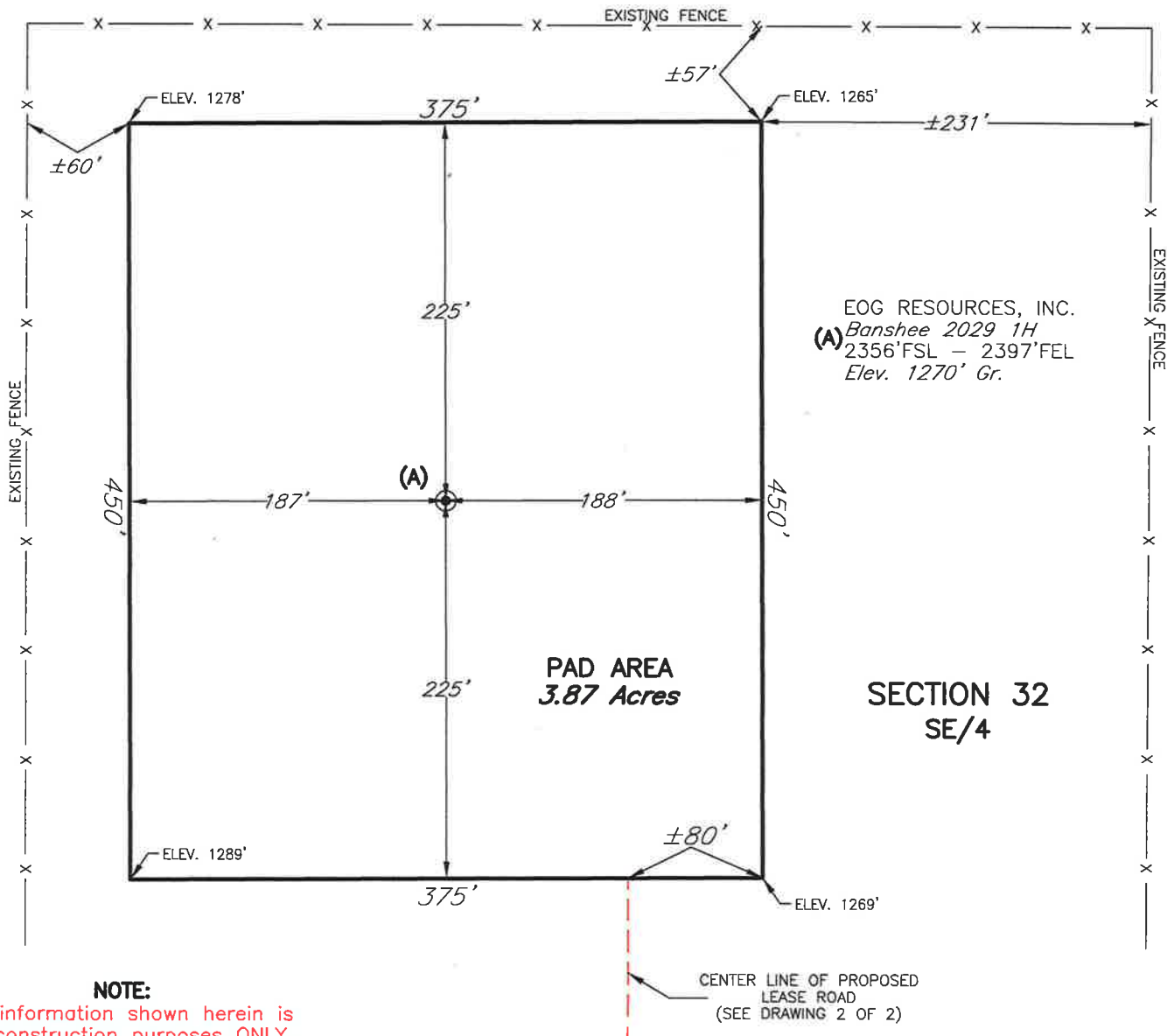
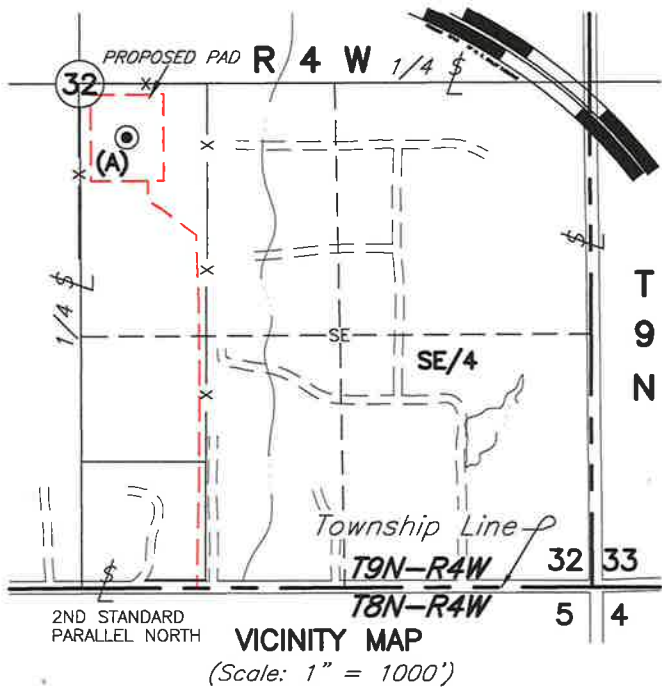
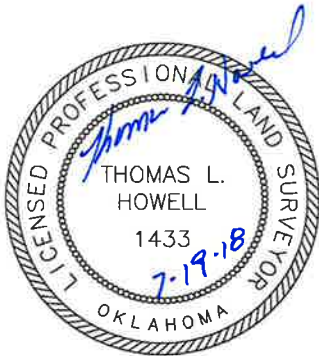


LAND SURVEYORS OF OKLAHOMA

T 9 N - R 4 W
(INDIAN MERIDIAN)

PLAT SHOWING

PROPOSED PAD AREA IN THE
SE/4 OF SECTION 32, T9N-R4W
McCLAIN COUNTY, OKLAHOMA



NOTE:

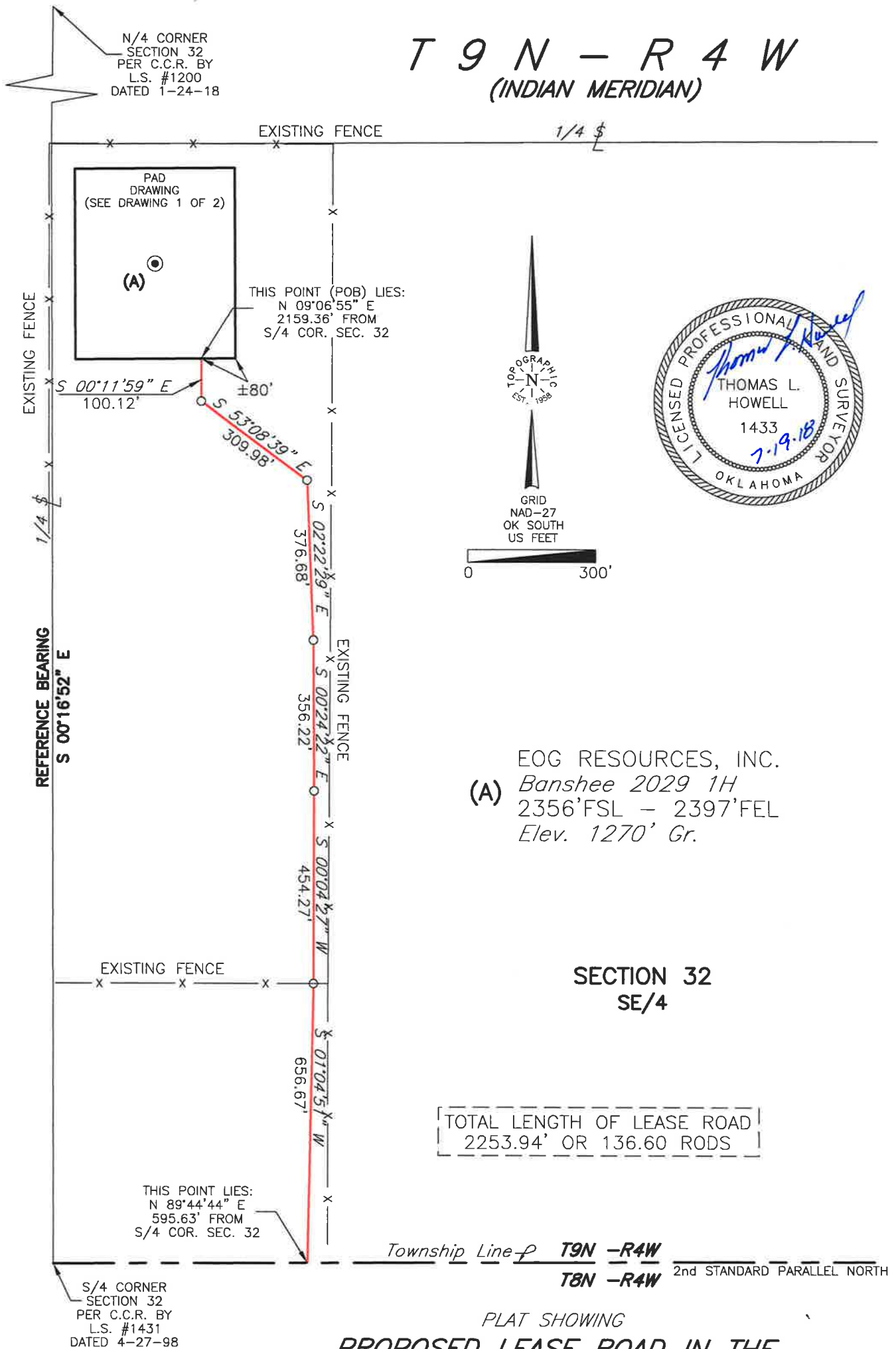
The information shown herein is
for construction purposes ONLY.

NO.	REVISION	DATE	BY
SURV. BY:	JM	7-12-18	
DRAWN BY:	AC		
APPROVED BY:	TH		

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:	7-17-18
INVOICE NO.:	298116
FILE NAME:	L2291A.DWG
DRAWING NO.:	105048-L2-291-A
SHEET	1 OF 2



NOTE:

The information shown herein is
for construction purposes ONLY.

				EOG RESOURCES, INC.		SCALE: 1" = 300'
				and may not be relied upon by any other entity without the written consent of Topographic Land Surveyors of Oklahoma.		DATE: 7-17-18
NO.	REVISION	DATE	BY	SURVEYING AND MAPPING BY		INVOICE NO.: 298116
SURV. BY: JM 7-12-18				TOPOGRAPHIC LAND SURVEYORS OF OKLAHOMA		FILE NAME: L2291A1.DWG
DRAWN BY: AC				13800 Wireless Way, Okla. City, OK. 73134 (405) 843-4847		DRAWING NO.: 105048-L2-291-A1
APPROVED BY: TH				Certificate of Authorization No. 1293 LS		SHEET 2 OF 2