

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

API NUMBER: 051 24438 A

Approval Date: 08/15/2018

Expiration Date: 02/15/2019

Horizontal Hole Oil & Gas

Amend reason: CHANGE SHL AND LEASE NAME

AMEND PERMIT TO DRILL

WELL LOCATION: Sec: 29 Twp: 8N Rge: 5W

County: GRADY

SPOT LOCATION:

FEET FROM QUARTER: FROM NORTH FROM WEST

SECTION LINES: 425 510

Lease Name: DESKINS 2932

Well No: 4H

Well will be 425 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

PHYLLIS & TEDDY PICKARD
PO BOX 743
BLANCHARD OK 73010

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

	Name	Depth	Name	Depth
1	MISSISSIPPIAN (LESS CHESTER)	10775	6	
2	WOODFORD	11075	7	
3	MISSISSIPPIAN	11130	8	
4			9	
5			10	

Spacing Orders: No Spacing

Location Exception Orders:

Increased Density Orders:

Pending CD Numbers: 201803497
201803498
201804926
201804927
201804932
201804933

Special Orders:

Total Depth: 22791

Ground Elevation: 1325

Surface Casing: 1500

Depth to base of Treatable Water-Bearing FM: 460

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 not located in a Hydrologically Sensitive Area.

Category of Pit: C

Liner not required for Category: C

Pit Location is NON HSA

Pit Location Formation: CHICKASHA

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

PERMIT NO: 18-34737

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 not located in a Hydrologically Sensitive Area.

Category of Pit: C

Liner not required for Category: C

Pit Location is NON HSA

Pit Location Formation: CHICKASHA

HORIZONTAL HOLE 1

Sec 32 Twp 8N Rge 5W County GRADY

Spot Location of End Point: S2 SE SE SW

Feet From: SOUTH 1/4 Section Line: 165

Feet From: WEST 1/4 Section Line: 2310

Depth of Deviation: 10990

Radius of Turn: 993

Direction: 170

Total Length: 10241

Measured Total Depth: 22791

True Vertical Depth: 11571

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

Notes:

Category

Description

DEEP SURFACE CASING

7/5/2018 - 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

7/5/2018 - 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

7/5/2018 - 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 - 201803497

7/9/2018 - G58 - (E.O.)(640)(HOR) 29-8N-5W
EXT 670842 MSNLC, WDFD, HNTN
COMPL. INT. (MSNLC, HNTN) NCT 660' FB
COMPL. INT. (WDFD) NCT 165' FNL & FSL, NCT 330' FEL & FWL
(COEXIST WITH PRODUCING NON-HORIZONTAL DRILLING AND SPACING UNITS)
REC 6/1/2018 (P. PORTER)

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

051 24438 DESKINS 2932 4H

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 - 201804926	7/9/2018 - G58 - 29-8N-5W X201803497 MSNLC, WDFD 3 WELLS NO OP. NAMED HEARING 8/20/2018
PENDING CD - 201804927	7/9/2018 - G58 - 32-8N-5W X679452 MSSP, WDFD 3 WELLS NO OP. NAMED HEARING 8/20/2018
PENDING CD - 201804932	7/9/2018 - G58 - (E.O.) 29 & 32-8N-5W EST MULTIUNIT HORIZONTAL WELL X201803497 MSNLC, WDFD 29-8N-5W X679452 MSSP, WDFD, OTHER 32-8N-5W (MSSP, MSNLC IS ADJACENT COMMON SOURCE OF SUPPLY TO WDFD) 50% 29-8N-5W 50% 32-8N-5W NO OP. NAMED REC 8/14/2018 (JACKSON)
PENDING CD - 201804933	7/9/2018 - G58 - (E.O.) 29 & 32-8N-5W X201803497 MSNLC, WDFD 29-8N-5W X679452 MSSP, WDFD, OTHER 32-8N-5W X165:10-3-28(C)(2)(B) MAY BE CLOSER THAN 600' TO EXISTING OR PROPOSED WELL COMPL. INT. (29-8N-5W) NCT 165' FNL, NCT 0' FSL, NCT 1260' FWL COMPL. INT. (32-8N-5W) NCT 0' FNL, NCT 165' FSL, NCT 1260' FWL NO OP. NAMED REC 8/14/2018 (JACKSON)
SPACING - 679452	7/9/2018 - G58 - (E.O.)(640)(HOR) 32-8N-5W EXT 671033 MSSP, WDFD, HNTN COMPL. INT. (MSNLC, HNTN) NCT 660' FB COMPL. INT. (WDFD) NCT 165' FNL & FSL, NCT 330' FEL & FWL (COEXIST WITH PRODUCING NON-HORIZONTAL DRILLING AND SPACING UNITS) 6/21/2018

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

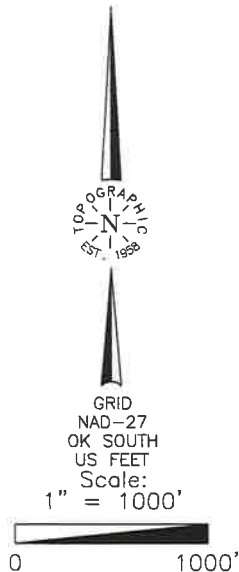
13800 WIRELESS WAY, OKLA. CITY, OKLA. 73134 * LOCAL (405) 843-4847 * OUT OF STATE (800) 654-3219
Certificate of Authorization No. 1293 LS

GRADY

County, Oklahoma

051-24438 amend

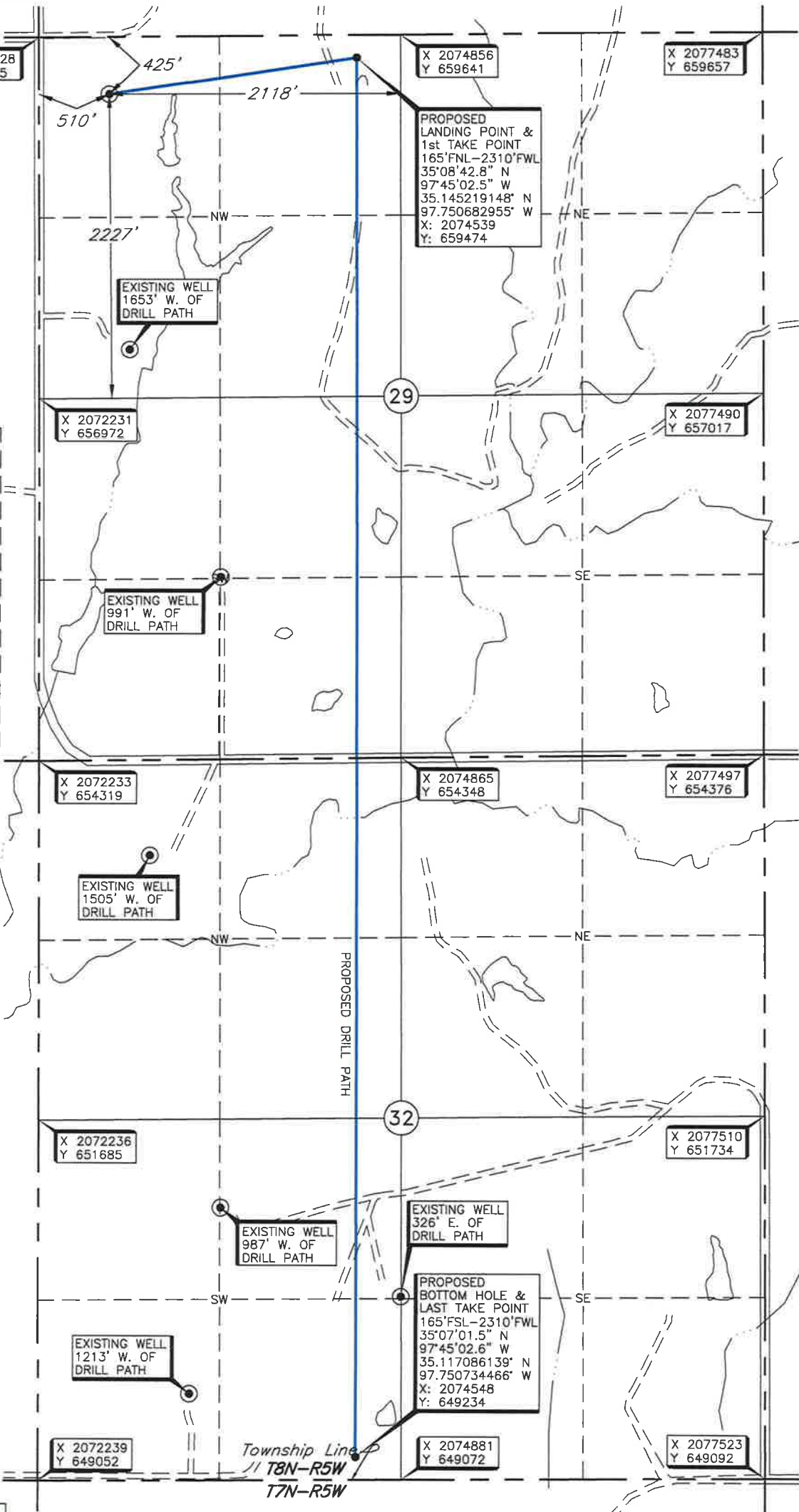
425'FNL-510'FWL Section 29 Township 8N Range 5W I.M.



Operator: EOG RESOURCES, INC.
Lease Name: DESKINS 2932
Topography & Vegetation Location fell on level pad
Well No.: 4H
ELEVATION:
1321' Gr. at Level Pad

Good Drill Site? Yes
Best Accessibility to Location From West off county road
Distance & Direction From Tuttle, Oklahoma, go ± 6 miles East on St. Hwy 37, then ± 8 miles South, ± 3 miles West, ± 2 miles South to the Northwest Corner of Section 29, T8N-R5W.
Reference Stakes or Alternate Location Stakes Set None

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



THE INFORMATION SHOWN HEREIN IS FOR CONSTRUCTION PURPOSES ONLY

DATUM: NAD-27
LAT: 35°08'40.1" N
LONG: 97°45'24.1" W
LAT: 35.144486042° N
LONG: 97.756705114° W
STATE PLANE
COORDINATES (US FEET):
ZONE: OK SOUTH
X: 2072739
Y: 659203

Invoice # 300827B Date of Drawing: August 21, 2018
Date Staked: August 16, 2018 JP

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



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

GRADY

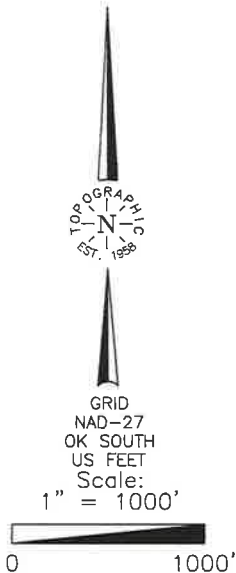
County, Oklahoma

425'FNL-510'FWL

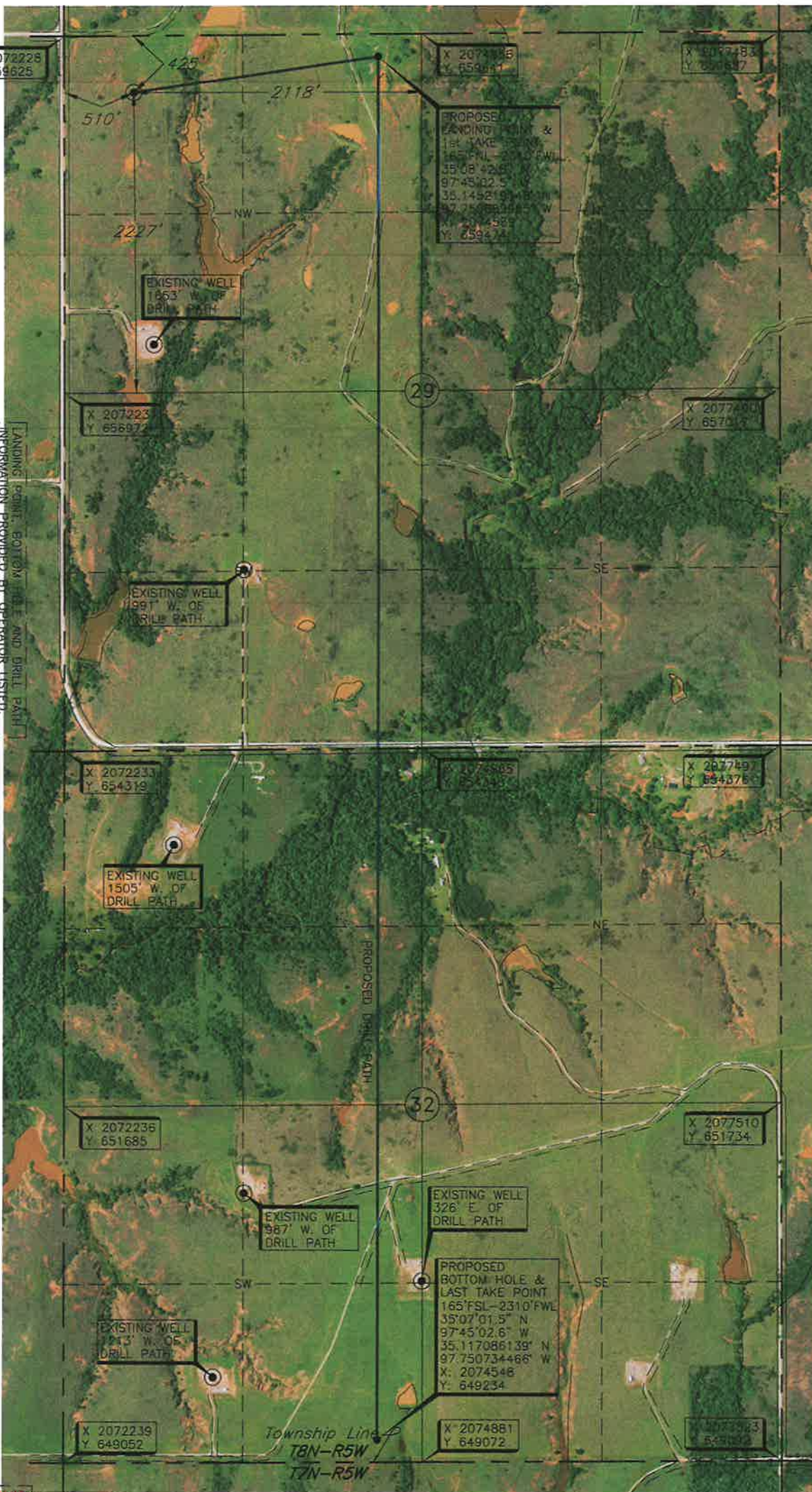
Section 29

Township 8N

Range 5W I.M.



Operator: EOG RESOURCES, INC.
Lease Name: DESKINS 2932
Topography & Vegetation Location fell on level pad
Good Drill Site? Yes
Reference Stakes or Alternate Location
Stakes Set None
Best Accessibility to Location From West off county road
Distance & Direction From Tuttle, Oklahoma, go ± 6 miles East on St. Hwy 37, then ± 8 miles South, ± 3 miles West, ± 2 miles South to the Northwest Corner of Section 29, T8N-R5W.
Well No.: 4H
ELEVATION:
1321' Gr. at Level Pad



THE INFORMATION SHOWN HEREIN IS FOR CONSTRUCTION PURPOSES ONLY

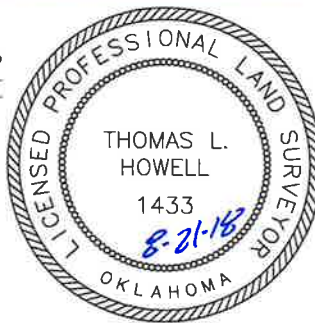
DATUM: NAD-27
LAT: 35°08'40.1" N
LONG: 97°45'24.1" W
LAT: 35.144486042° N
LONG: 97.756705114° W
STATE PLANE
COORDINATES (US FEET):
ZONE: OK SOUTH
X: 2072739
Y: 659203

Invoice # 300827B Date of Drawing: August 21, 2018
Date Staked: August 16, 2018 JP

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



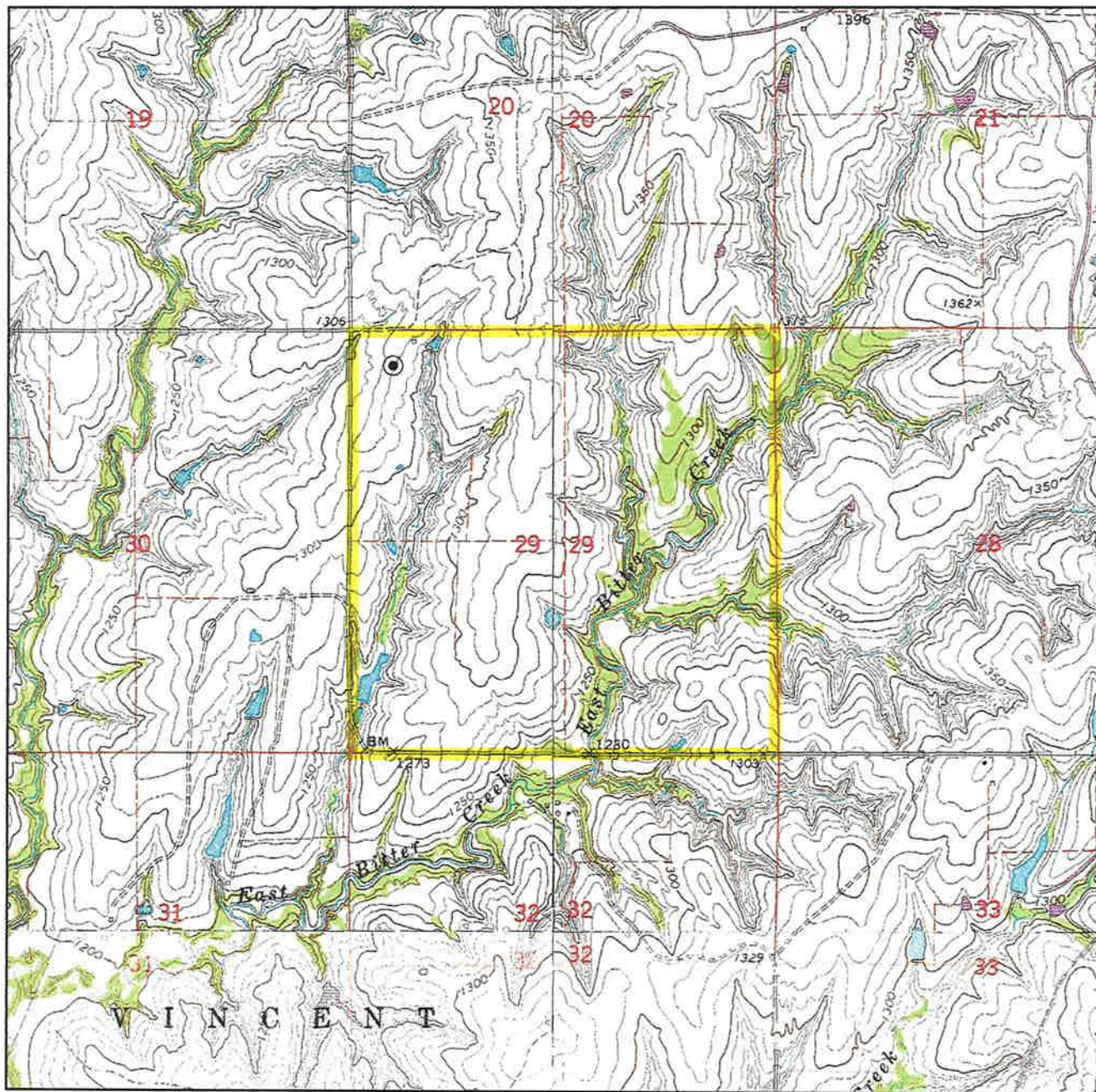
TOPOGRAPHIC LAND SURVEYORS OF OKLAHOMA

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. 29 Twp. 8N Rng. 5W I.M.

County GRADY State OK

Operator EOG RESOURCES, INC.

Description 425'FNL-510'FWL

Lease DESKINS 2932 #4H

Elevation 1321' Gr. at Level Pad

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

August 16, 2018

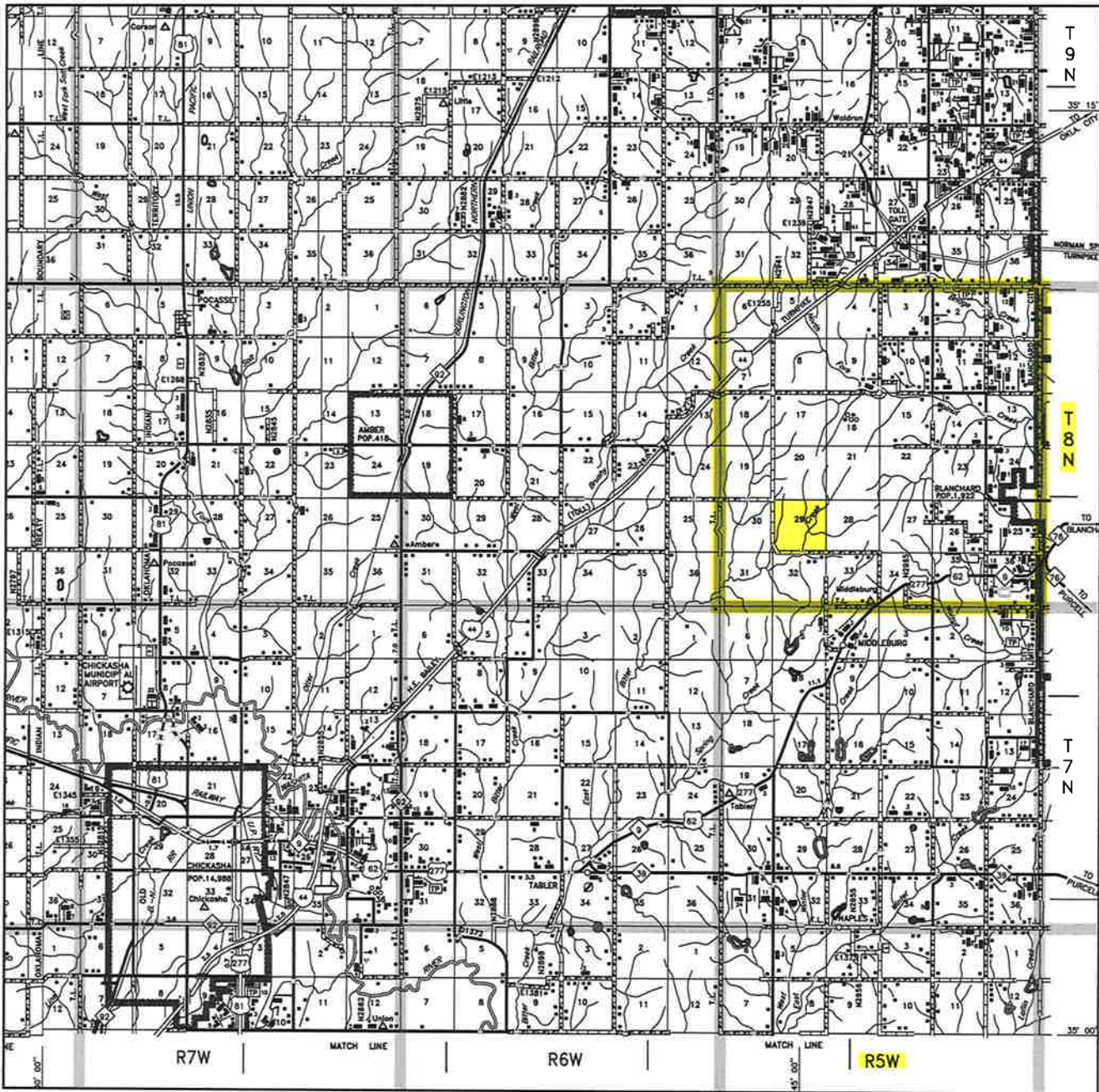
TOPOGRAPHIC LAND SURVEYORS OF OKLAHOMA

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

VICINITY MAP



Scale: 1" = 3 Miles

Sec. 29 Twp. 8N Rng. 5W I.M.

County GRADY State OK

Operator EOG RESOURCES, INC.



LAND SURVEYORS OF OKLAHOMA