

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

API NUMBER: 087 22144

Approval Date: 06/11/2018
Expiration Date: 12/11/2018

Horizontal Hole Oil & Gas

PERMIT TO DRILL

WELL LOCATION: Sec: 07 Twp: 9N Rge: 4W County: MCCLAIN
SPOT LOCATION: NW SE NE NW FEET FROM QUARTER: FROM NORTH FROM WEST
SECTION LINES: 844 2201

Lease Name: NIGHTHAWK Well No: 0718 1H Well will be 844 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

MCMURTRY MANAGEMENT & INVESTMENTS LLC
PO BOX 850467
THOMAS E MCMURTRY, MANAGING MEMBER
YUKON OK 73085-

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

	Name	Depth	Name	Depth
1	MISSISSIPPIAN	8985	6	
2	WOODFORD	9040	7	
3	HUNTON	9190	8	
4			9	
5			10	

Spacing Orders: 632844

Location Exception Orders:

Increased Density Orders:

Pending CD Numbers: 201804000
201804002
201803999

Special Orders:

Total Depth: 19629

Ground Elevation: 1354

Surface Casing: 1500

Depth to base of Treatable Water-Bearing FM: 1100

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: 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

Approved Method for disposal of Drilling Fluids:

D. One time land application -- (REQUIRES PERMIT) PERMIT NO: 18-34705

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 18 Twp 9N Rge 4W County MCCLAIN

Spot Location of End Point: S2 SW SW SW

Feet From: SOUTH 1/4 Section Line: 165

Feet From: WEST 1/4 Section Line: 330

Depth of Deviation: 8541

Radius of Turn: 530

Direction: 190

Total Length: 10256

Measured Total Depth: 19629

True Vertical Depth: 9409

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

Notes:

Category

Description

DEEP SURFACE CASING

6/1/2018 - 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

6/1/2018 - 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

6/1/2018 - 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 - 201803999

6/11/2018 - G58 - (640)(HOR) 18-9N-4W
EXT 664083 MSSP, WDFD, HNTN
COMPL. INT. (MSSP, HNTN) NCT 660' FB
COMPL. INT. (WDFD) NCT 165' FNL & FSL, NCT 330' FEL & FWL
(EXIST CONCURRENTLY WITH NON-HORIZONTAL DRILLING AND 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.

Category	Description
PENDING CD - 201804000	6/11/2018 - G58 - (I.O.) 7 & 18-9N-4W EST MULTIUNIT HORIZONTAL WELL X632844 MSSP, WDFD, HNTN (7-9N-4W) X201803999 MSSP, WDFD, HNTN (18-9N-4W) 50% 7-9N-4W 50% 18-9N-4W NO OP. NAMED REC 6/4/2018 (THOMAS)
PENDING CD - 201804002	6/11/2018 - G58 - (I.O.) 7 & 18-9N-4W X632844 MSSP, WDFD, HNTN (7-9N-4W) X201803999 MSSP, WDFD, HNTN (18-9N-4W) COMPL. INT. (7-9N-4W) NCT 165' FNL, NCT 0' FSL, NCT 330' FWL COMPL. INT. (18-9N-4W) NCT 165' FSL, NCT 0' FNL, NCT 330' FWL NO OP. NAMED REC 6/4/2018 (THOMAS)
SPACING - 632844	6/11/2018 - G58 - (640) 7-9N-4W VAC 140574 HNTN EXT 61142 MSSP, WDFD, HNTN, OTHERS

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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

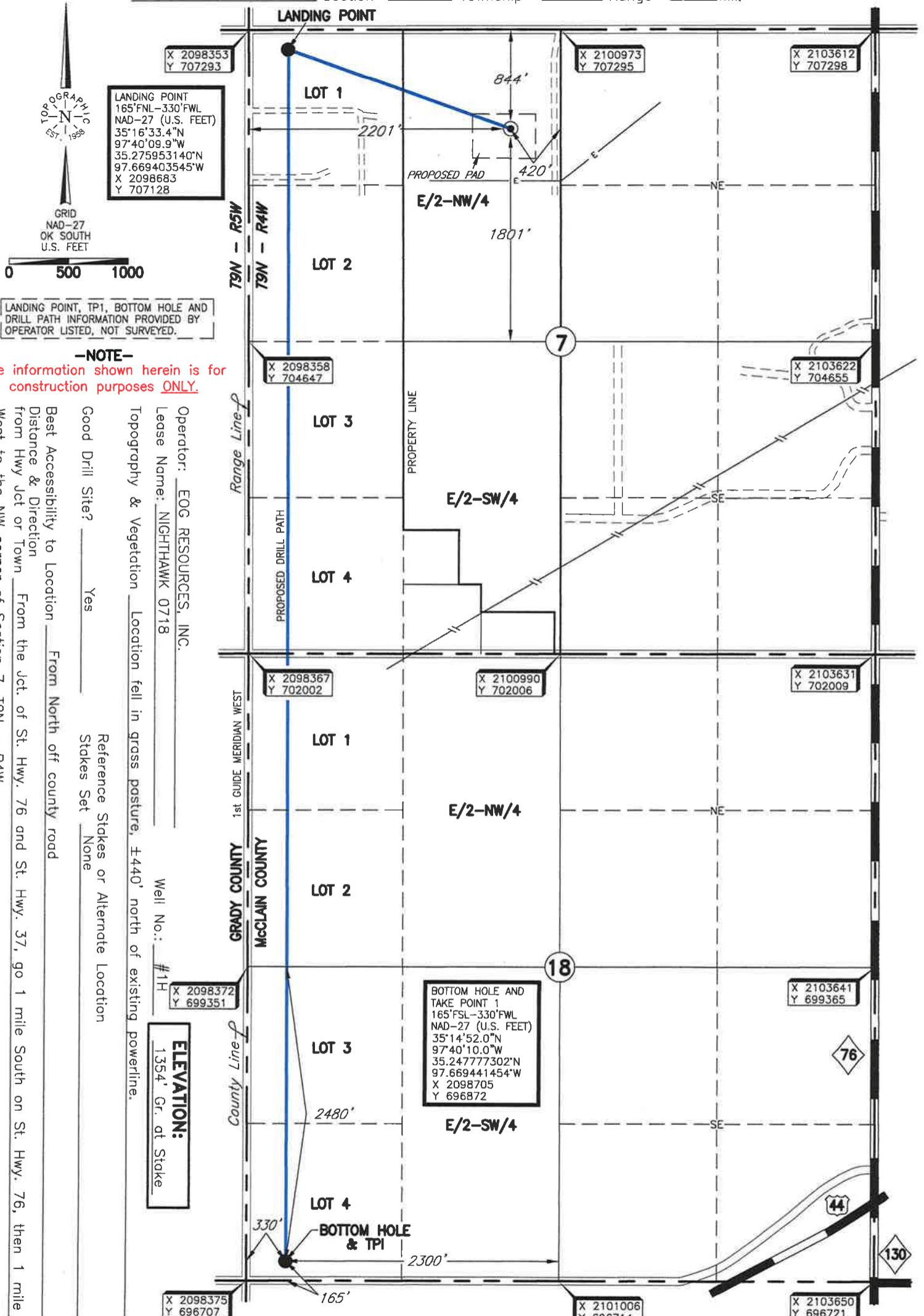
Certificate of Authorization No. 1293 LS

McCLAIN

County, Oklahoma

087-22144

844'FNL - 2201'FWL Section 7 Township 9N Range 4W I.M.



LANDING POINT
 165'FNL-330'FWL
 NAD-27 (U.S. FEET)
 35°16'33.4"N
 97°40'09.9"W
 35.275953140°N
 97.669403545°W
 X 2098683
 Y 707128

BOTTOM HOLE AND TAKE POINT 1
 165'FSL-330'FWL
 NAD-27 (U.S. FEET)
 35°14'52.0"N
 97°40'10.0"W
 35.24777302°N
 97.669441454°W
 X 2098705
 Y 696872

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

Operator: EOG RESOURCES, INC.
 Lease Name: NIGHTHAWK 0718
 Topography & Vegetation: Location fell in grass pasture, ±440' north of existing powerline.
 Good Drill Site? Yes
 Best Accessibility to Location: From North off county road
 Distance & Direction from Hwy Jct or Town: From the Jct. of St. Hwy. 76 and St. Hwy. 37, go 1 mile South on St. Hwy. 76, then 1 mile West to the NW corner of Section 7, T9N - R4W.
 Reference Stakes or Alternate Location: Stakes Set None
 Well No.: #1H
ELEVATION:
1354' Gr. at Stake

DATUM: NAD-27
 LAT: 35°16'26.7"N
 LONG: 97°39'47.3"W
 LAT: 35.274076576°N
 LONG: 97.663138447°W
 STATE PLANE COORDINATES: (US Feet)
 ZONE: OK SOUTH
 X: 2100555
 Y: 706451

Date of Drawing: May 31, 2018
 Invoice # 294149 Date Staked: May 31, 2018 RKM/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



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 Certificate of Authorization No. 1293 LS

McCLAIN

County, Oklahoma

844'FNL - 2201'FWL Section 7 Township 9N Range 4W I.M.

LANDING POINT
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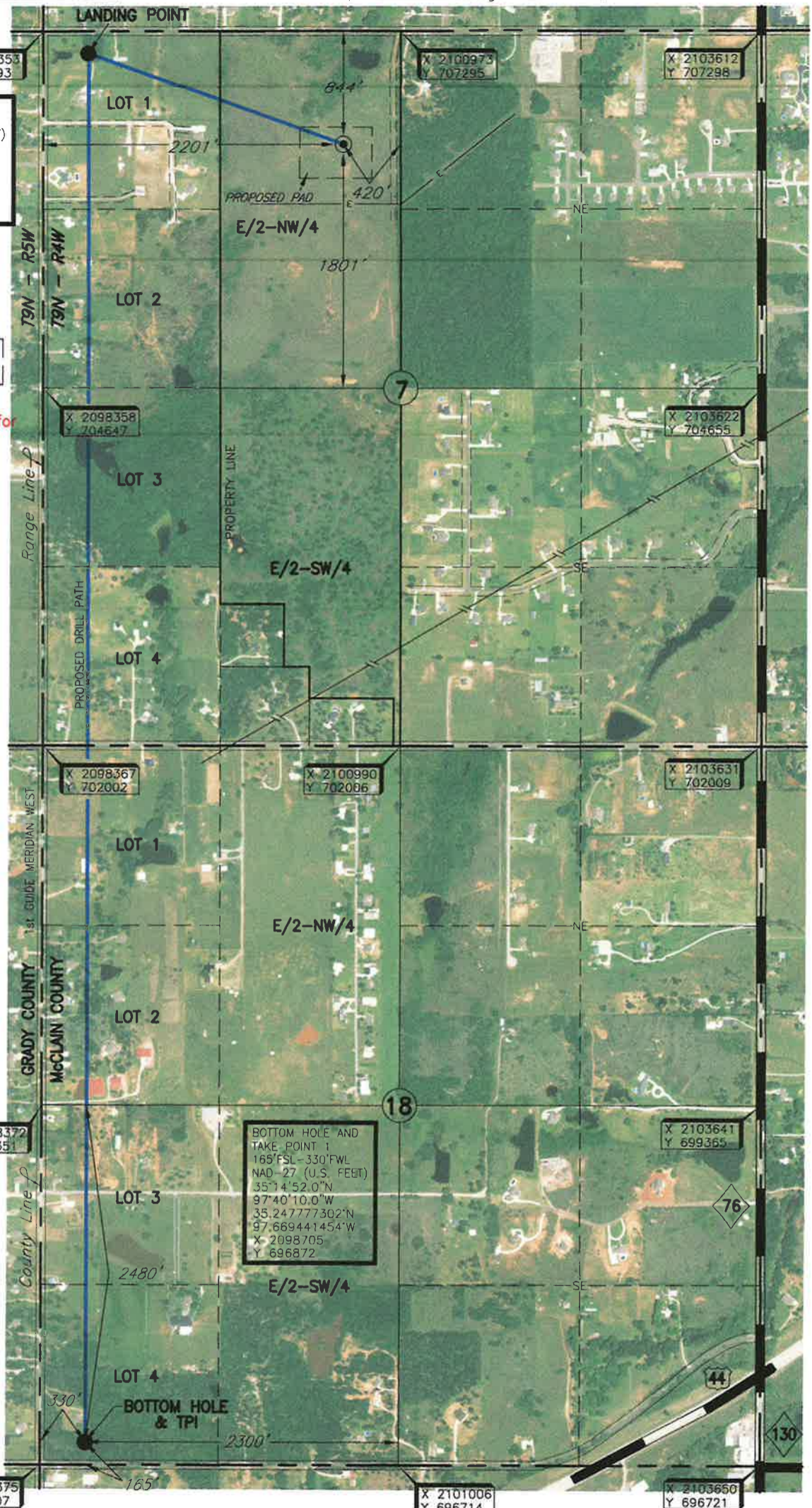
GRID
 NAD-27
 OK SOUTH
 U.S. FEET

0 500 1000

LANDING POINT, TP1, BOTTOM HOLE AND
 DRILL PATH INFORMATION PROVIDED BY
 OPERATOR LISTED, NOT SURVEYED.

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 Lease Name: NIGHTHAWK 0718
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 Best Accessibility to Location: From North off county road
 Distance & Direction: From the Jct. of St. Hwy. 76 and St. Hwy. 37, go 1 mile South on St. Hwy. 76, then 1 mile West to the NW corner of Section 7, T9N - R4W.
 Reference Stakes or Alternate Location: Stakes Set None
 Well No.: #1H
ELEVATION:
1354' Gr. at Stake



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

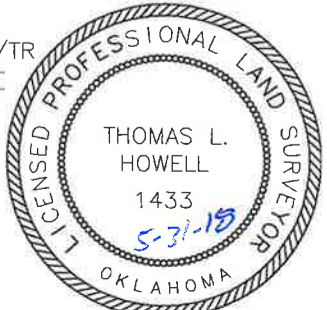
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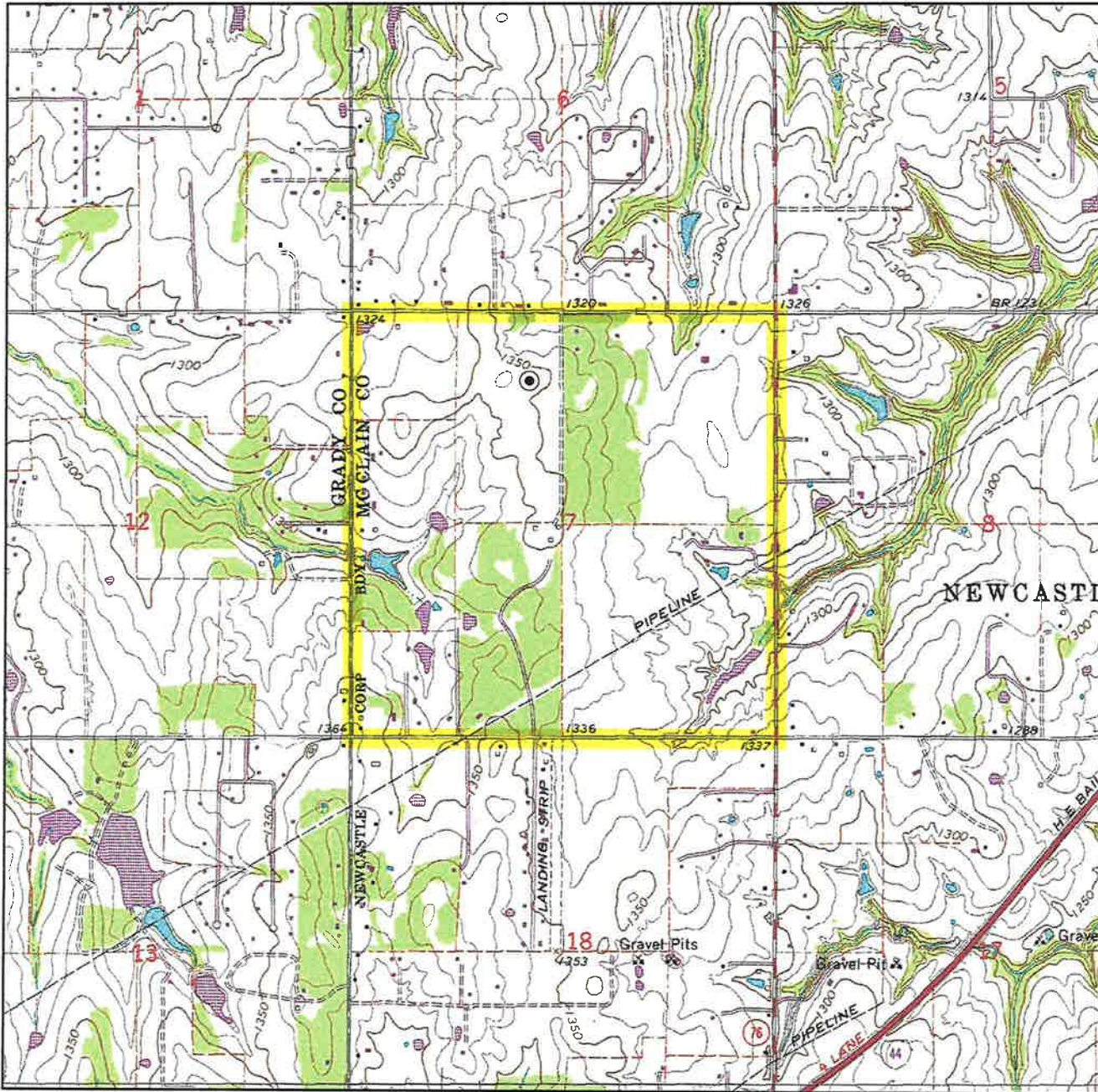
TOPOGRAPHIC LAND SURVEYORS OF OKLAHOMA

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. 7 Twp. 9N Rng. 4W IM

County McCLAIN State OK

Operator EOG RESOURCES, INC.

Description 844'FNL - 2201'FWL

Lease NIGHTHAWK 0718 #1H

Elevation 1354' 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.



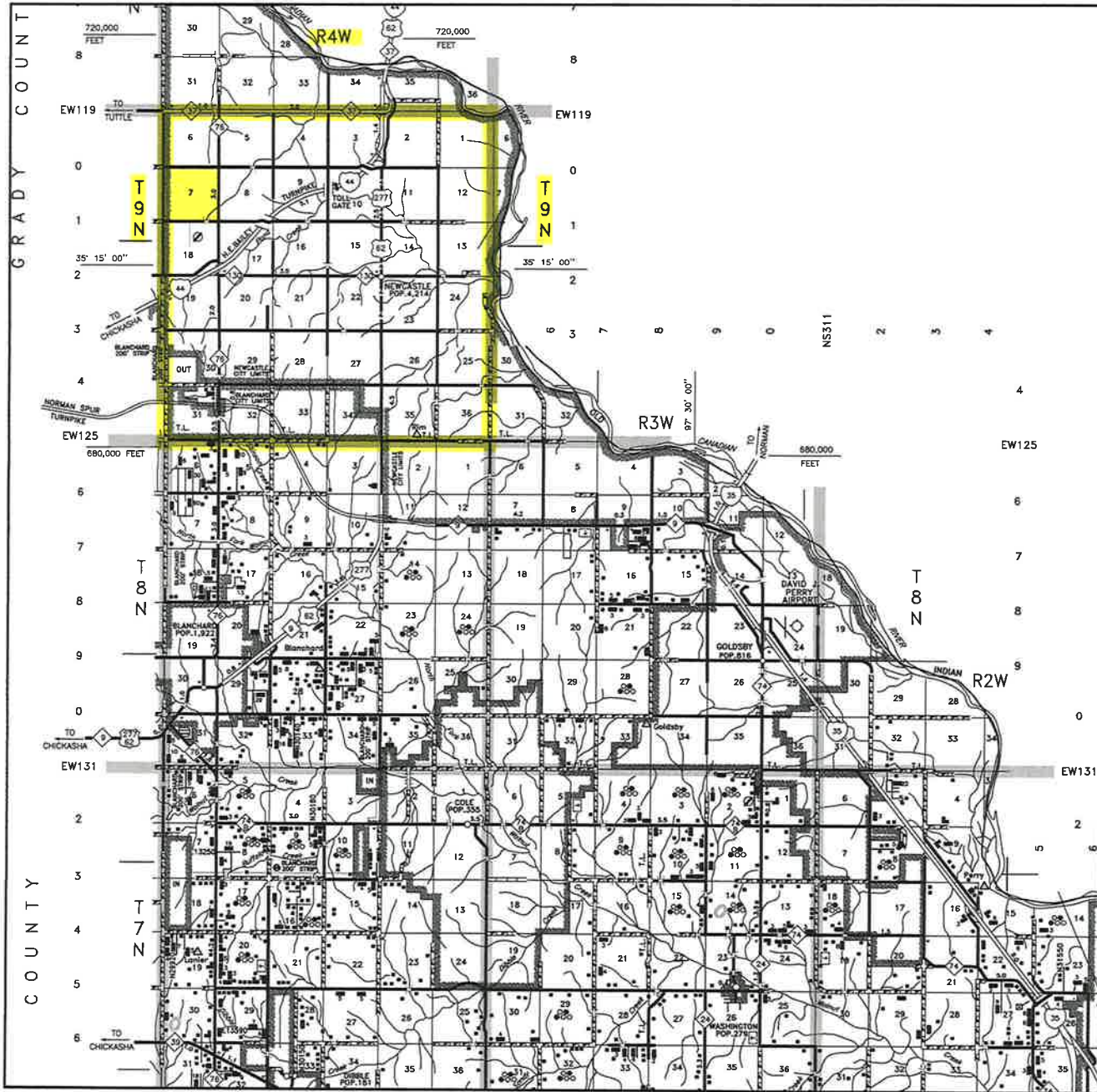
LAND SURVEYORS OF OKLAHOMA

May 31, 2018

TOPOGRAPHIC LAND SURVEYORS OF OKLAHOMA

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VICINITY MAP



Scale: 1" = 3 Miles

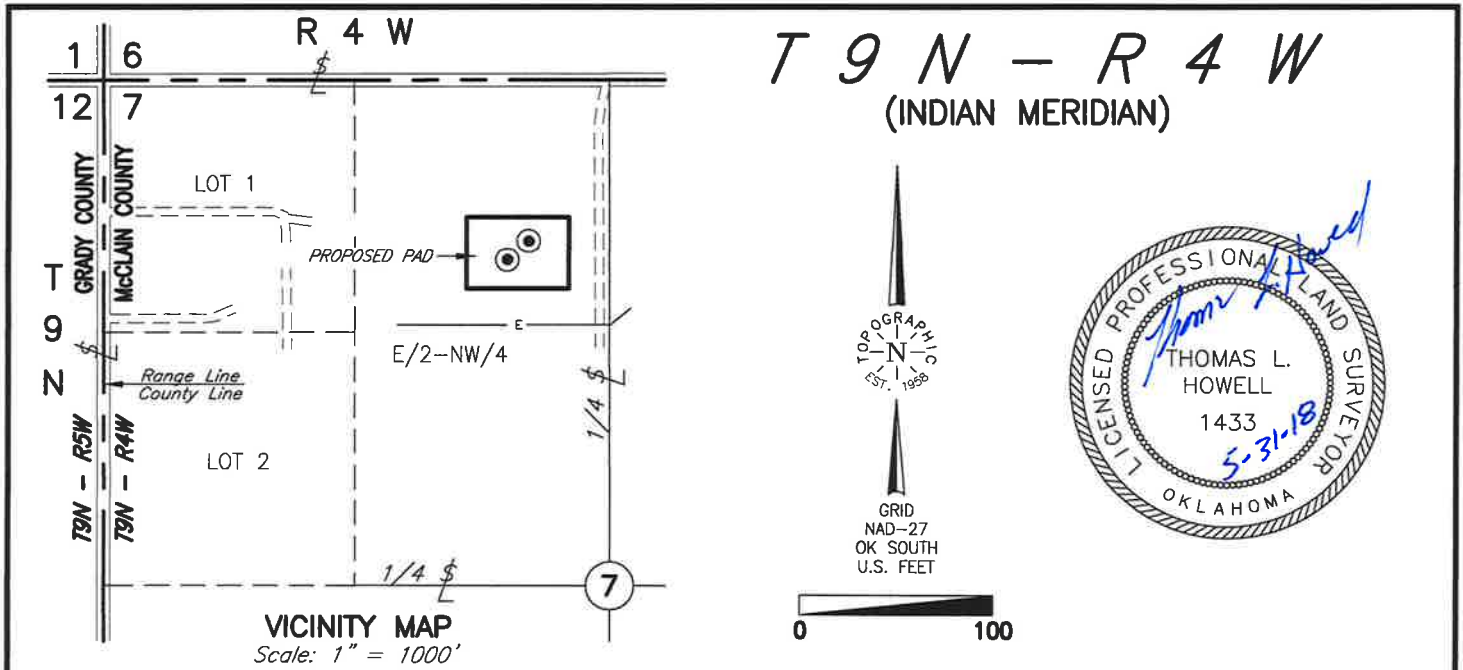
Sec. 7 Twp. 9N Rng. 4W IM

County McCLAIN State OK

Operator EOG RESOURCES, INC.

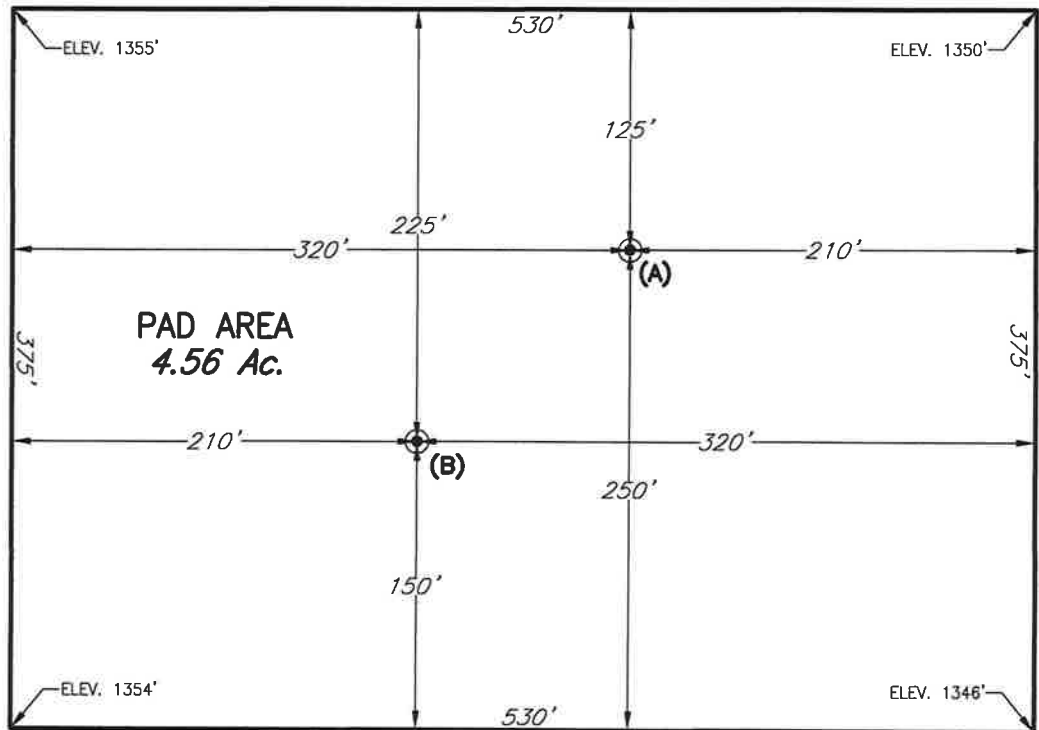


LAND SURVEYORS OF OKLAHOMA



**SECTION 7
NW/4**

- (A) EOG RESOURCES, INC.
Nighthawk 0718 #1H
844'FNL - 2201'FWL
Elev. 1354' Gr. at Stake
- (B) EOG RESOURCES, INC.
Warhawk 0631 #1H
944'FNL - 2091'FWL
Elev. 1356' Gr. at Stake



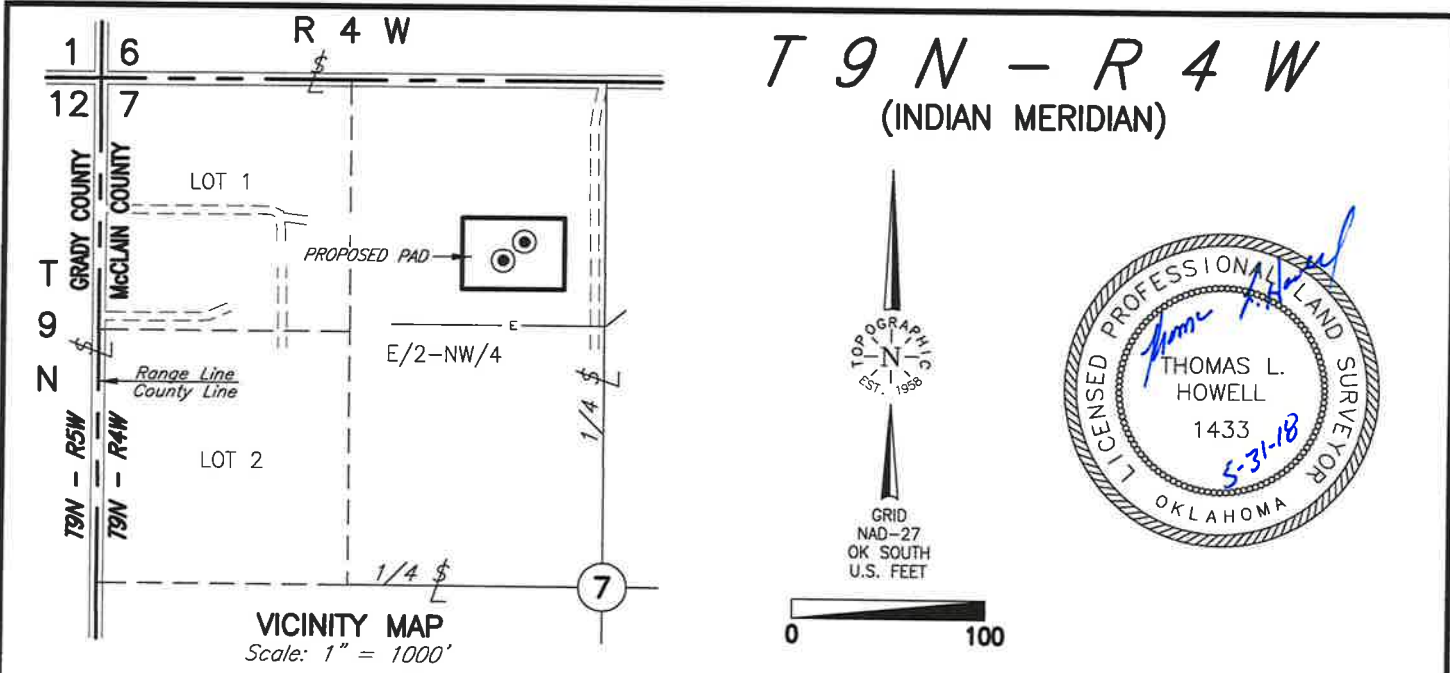
PLAT SHOWING

**PROPOSED PAD IN THE
NW/4 OF SECTION 7, T9N - R4W
McCLAIN COUNTY, OKLAHOMA**

NOTES:

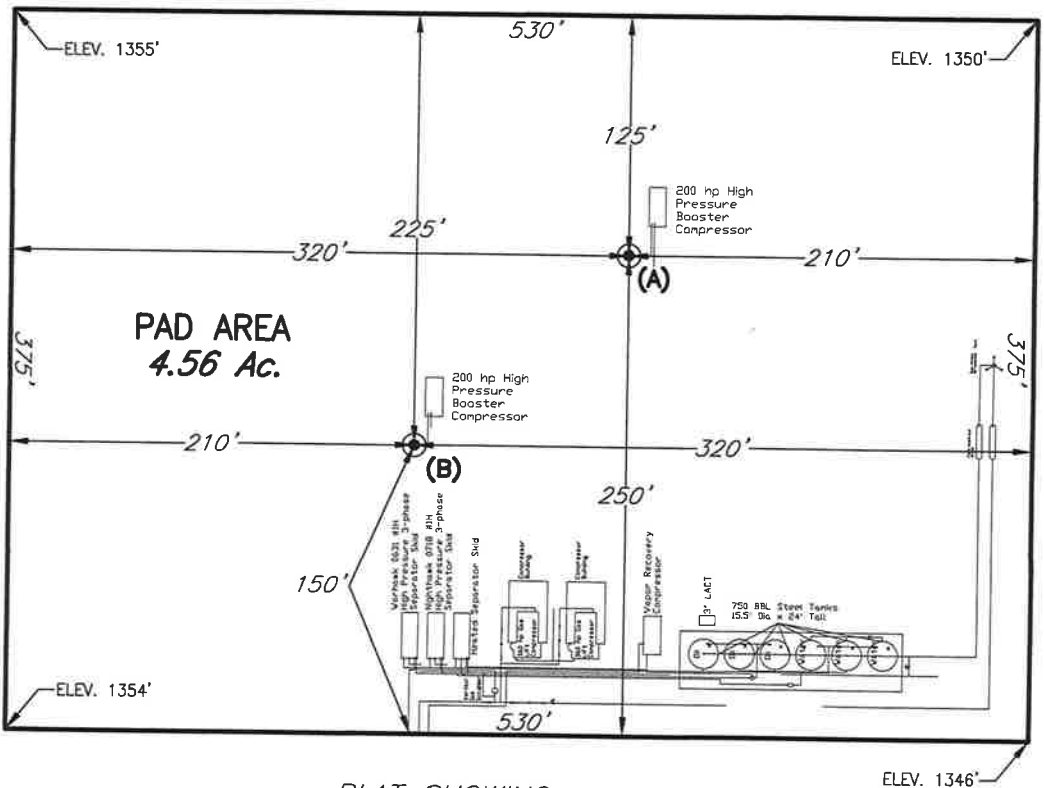
- The information shown herein is for construction purposes ONLY
- Location does not lie within flood plain

				This plat was prepared exclusively for EOG RESOURCES, INC.		SCALE: 1" = 100'	
				and may not be relied upon by any other entity without the written consent of Topographic Land Surveyors of Oklahoma		DATE: 5-31-18	
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		INVOICE NO.: 294149	
SUR. BY:	JM	5-31-18				FILE NAME: L4260B.DWG	
DRAWN BY:	TR					DWG NO.: 105048-L4-260-A	
APPROVED BY:	TH					SHEET 1 OF 1	



**SECTION 7
NW/4**

- (A) EOG RESOURCES, INC.
Nighthawk 0718 #1H
844'FNL - 2201'FWL
Elev. 1354' Gr. at Stake
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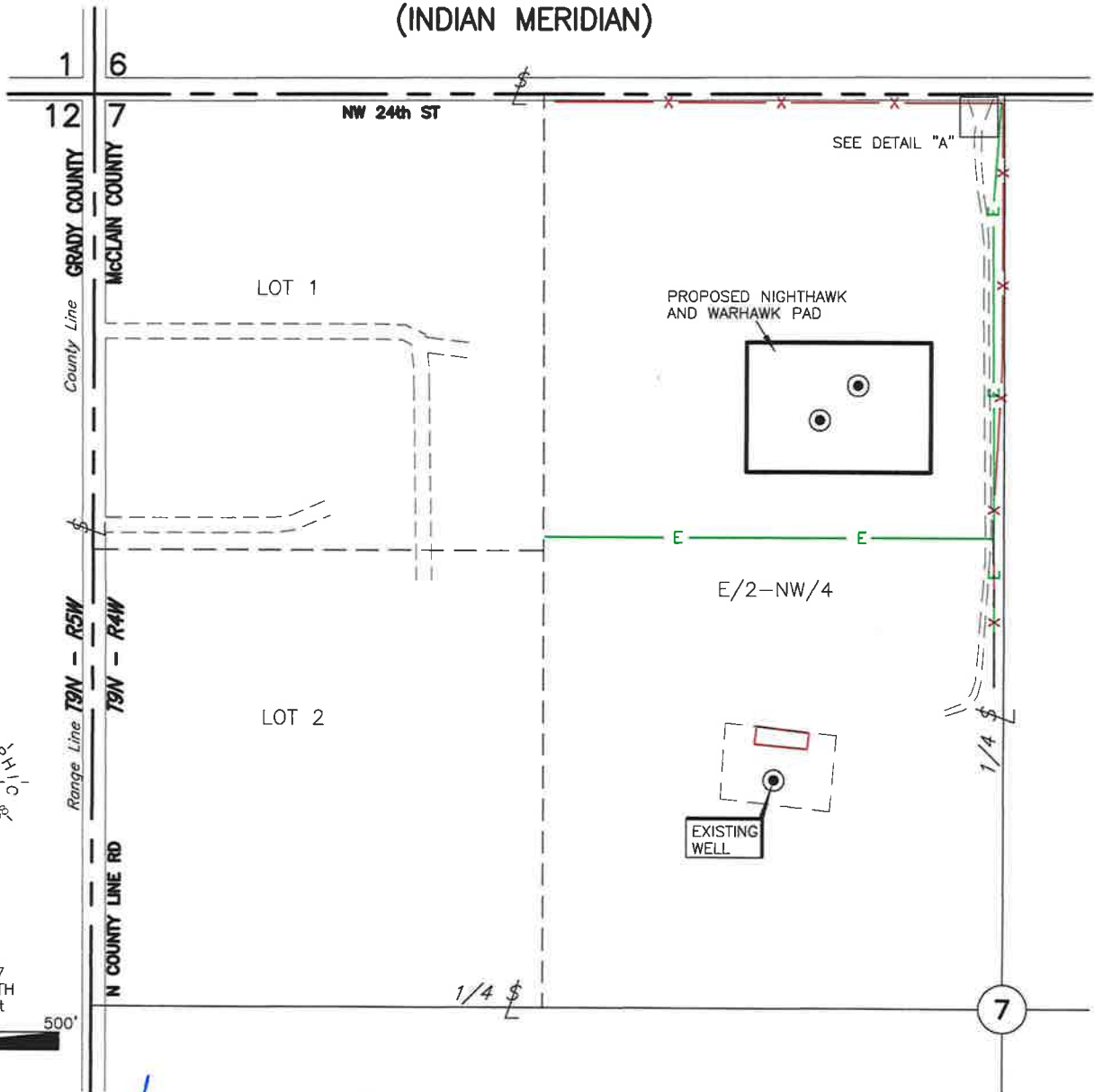


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NO. REVISION DATE BY SUR. BY: JM 5-31-18 DRAWN BY: TR APPROVED BY: TH	SURVEYING AND MAPPING BY TOPOGRAPHIC LAND SURVEYORS OF OKLAHOMA <small>13800 Wireless Way, Okla. City, OK. 73134 (405) 843-4847 Certificate of Authorization No. 1293 LS</small>	FILE NAME: L4260B.DWG DWG NO.: 105048-L4-260-A SHEET 1 OF 1

T 9 N - R 4 W

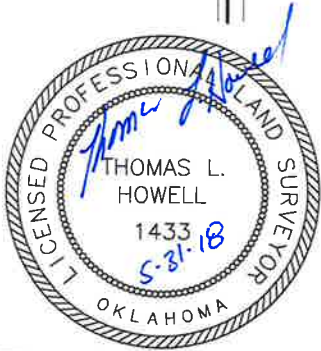
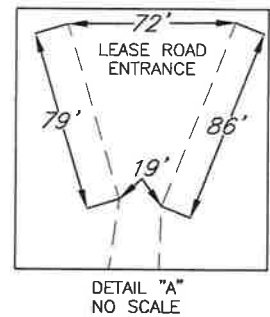
(INDIAN MERIDIAN)



NOTES:

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PLAT SHOWING
**AREA AROUND PROPOSED NIGHTHAWK
 AND NIGHTHAWK PAD IN THE
 NW/4 OF SECTION 7, T9N - R4W
 McCLAIN COUNTY, OKLAHOMA**



NO.	REVISION	DATE	BY

SUR. BY: JM 5-31-18
 DRAWN BY: TR
 APPROVED BY: TH

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EOG RESOURCES, INC.
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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

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FILE NAME:	L4260A1.DWG
DWG NO.:	105048-L4-260-A1
SHEET	1 OF 1