

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

API NUMBER: 009 21995

Approval Date: 05/07/2018

Expiration Date: 11/07/2018

Horizontal Hole Oil & Gas

PERMIT TO DRILL

WELL LOCATION: Sec: 24 Twp: 11N Rge: 23W

County: BECKHAM

SPOT LOCATION: ☐ NE ☐ NE ☐ NW ☐ NW

FEET FROM QUARTER: FROM NORTH FROM WEST

SECTION LINES: 230 1000

Lease Name: PLUMMER WOODS

Well No: 1-13H

Well will be 230 feet from nearest unit or lease boundary.

Operator Name: JMA ENERGY COMPANY LLC

Telephone: 4059474322

OTC/OCC Number: 20475 0

JMA ENERGY COMPANY LLC
1021 NW GRAND BLVD
OKLAHOMA CITY, OK 73118-6039

STEPHEN HALEY AND CAROL HALEY
11206 N. 1910 RD.
SAYRE OK 73662

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

	Name	Depth	Name	Depth
1	MARMATON	12550	6	
2			7	
3			8	
4			9	
5			10	

Spacing Orders: 183282

Location Exception Orders: 201800083

Increased Density Orders: 201800081

Pending CD Numbers:

Special Orders:

Total Depth: 18312

Ground Elevation: 2071

Surface Casing: 700

Depth to base of Treatable Water-Bearing FM: 650

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: 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: ELK CITY

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

PERMIT NO: 18-34428

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: ELK CITY

HORIZONTAL HOLE 1

Sec 13 Twp 11N Rge 23W County ROGER MILLS

Spot Location of End Point: SW NW NE NW

Feet From: NORTH 1/4 Section Line: 331

Feet From: WEST 1/4 Section Line: 1601

Depth of Deviation: 12793

Radius of Turn: 574

Direction: 2

Total Length: 4618

Measured Total Depth: 18312

True Vertical Depth: 13365

End Point Location from Lease,
Unit, or Property Line: 330

Notes:

Category

Description

HYDRAULIC FRACTURING

5/2/2018 - 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

5/2/2018 - G71 - PITS 1 & 2 - CLOSED SYSTEM=STEEL PITS PER OPERATOR REQUEST, PIT 2 - OBM RETURNED TO VENDOR, CUTTINGS PERMITTED PER DISTRICT

PENDING CD - 201800081

5/7/2018 - G58 - 13-11N-23W
X183282 MRMN
1 WELL
NO OP. NAMED
REC 3/26/2018 (JACKSON)

PENDING CD - 201800083

5/7/2018 - G58 - (I.O.) 13-11N-23W
X183282 MRMN
X165:10-3-28(C)(2)(B) MAY BE CLOSER THAN 600' TO HUTSON FARMS 3-13H RE WELL
COMPL. INT. NCT 330' FNL, NCT 330' FSL, NCT 1000' FWL
NO OP. NAMED
REC 3/26/2018 (JACKSON)

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

009 21995 PLUMMER WOODS 1-13H

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

SPACING - 183282

Description

5/7/2018 - G58 - (640) 13-11N-23W
EXT 132600/145095 MRMN, OTHERS

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

BECKHAM

County, Oklahoma

009-21995

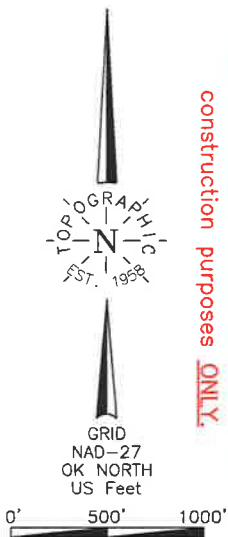
230'FNL-1000'FWL

Section 24

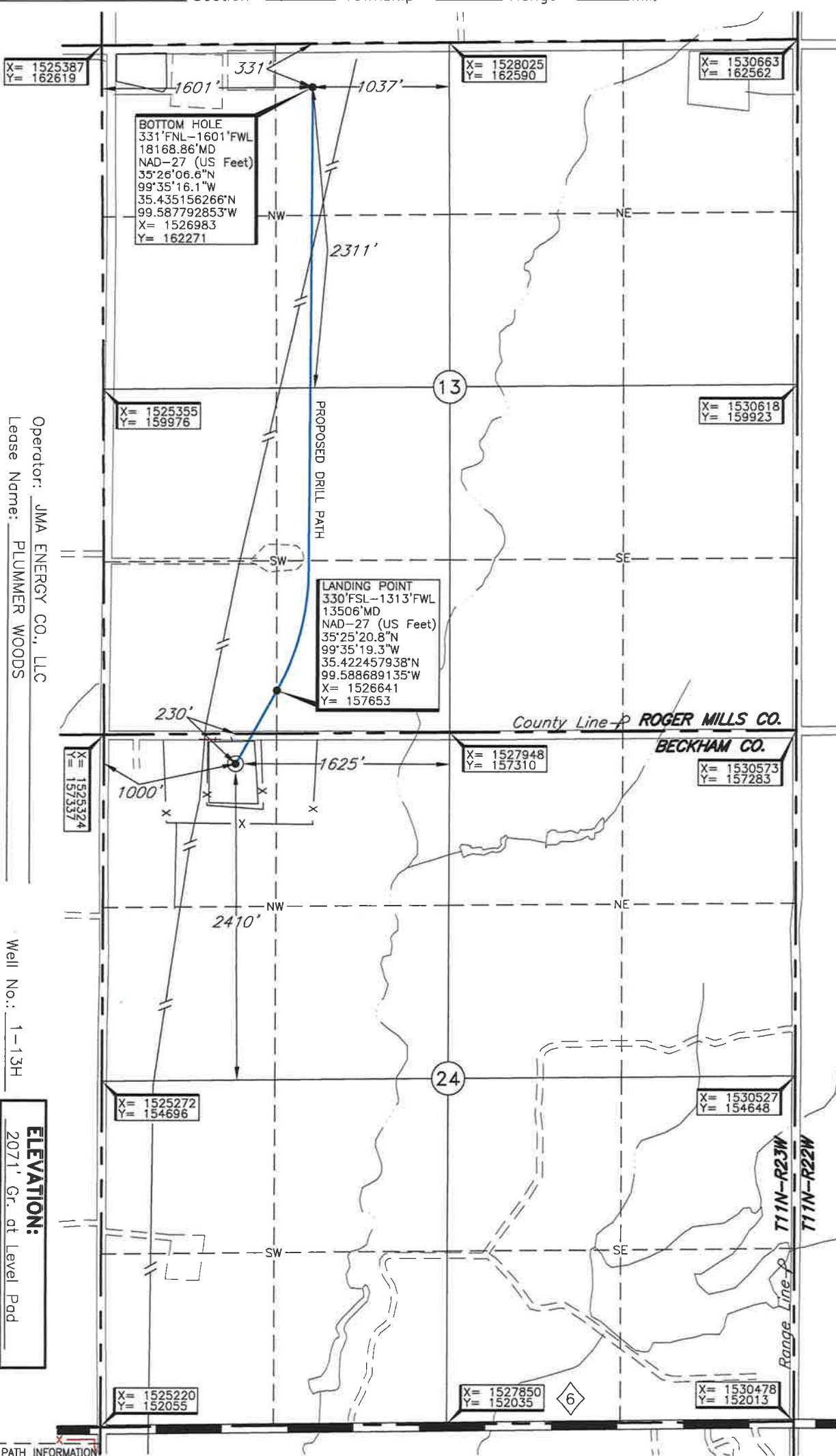
Township 11N

Range 23W

I.M.



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



Operator: JMA ENERGY CO., LLC
Lease Name: PLUMMER WOODS
Topography & Vegetation: Loc. fell on existing pad, 20' North of existing well stake.

Good Drill Site? Yes
Reference Stakes or Alternate Location: Stakes Set None

Best Accessibility to Location: From north off county road.

Distance & Direction: From the junction of U.S. Hwy. 283 & St. Hwy. 6, go ±3.5 miles east on St. Hwy. 6, then ±1.0 miles north to the Northwest Corner of Section 24, T11N-R23W.

ELEVATION:
2071' Gr. at Level Pad

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

Date of Drawing: May 1, 2018

Invoice # 293493

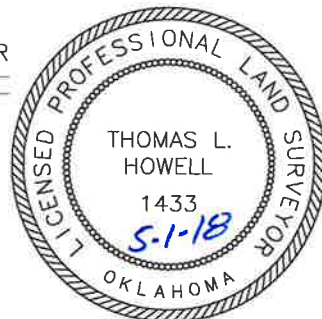
Date Staked: Apr. 18, 2018

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: 35°25'15.3"N
LONG: 99°35'23.1"W
LAT: 35.420914160°N
LONG: 99.589736967°W
STATE PLANE
COORDINATES: (US Feet)
ZONE: OK NORTH
X: 1526319
Y: 157097

Information was gathered with a GPS receiver with a 0.0 foot foot accuracy.

TOPOGRAPHIC LAND SURVEYORS OF OKLAHOMA

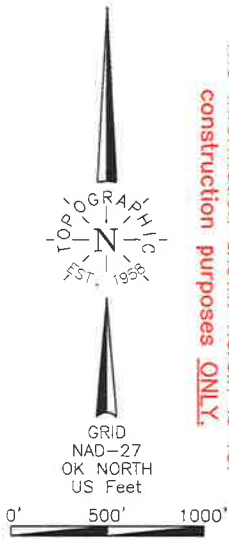
13800 WIRELESS WAY, OKLA. CITY, OKLA. 73134 * LOCAL (405) 843-4847 * OUT OF STATE (800) 654-3219

Certificate of Authorization No. 1293 LS

BECKHAM

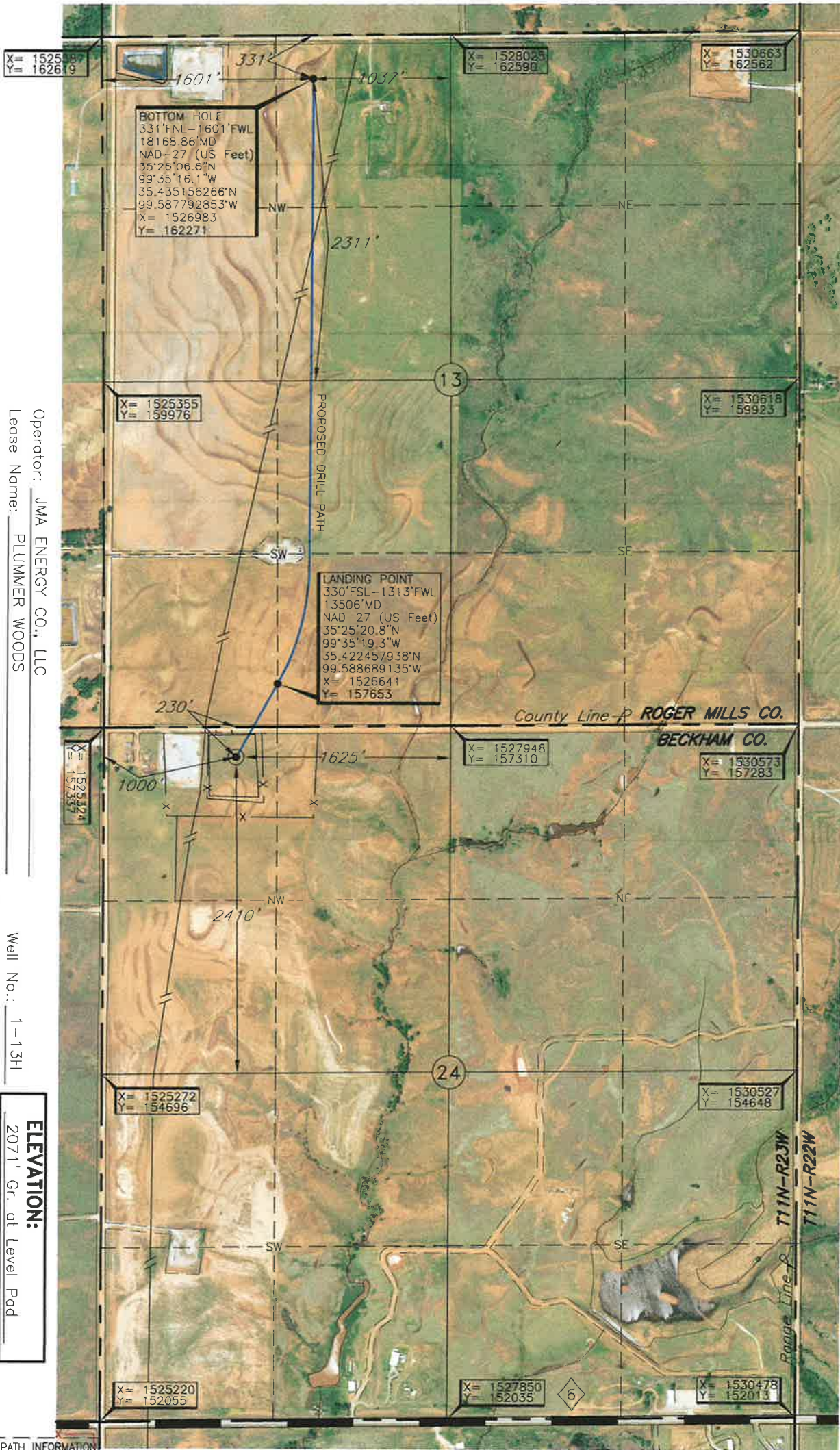
County, Oklahoma

230'FNL-1000'FWL Section 24 Township 11N Range 23W I.M.



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NOTE:



Operator: JMA ENERGY CO., LLC
Lease Name: PLUMMER WOODS

Topography & Vegetation Loc. fell on existing pad, 20' North of existing well stake.
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ELEVATION:

2071' Gr. at Level Pad

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Reference Stakes or Alternate Location Stakes Set None

Best Accessibility to Location From north off county road.
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LANDING POINT, BOTTOM HOLE, AND DRILL PATH INFORMATION PROVIDED BY OPERATOR LISTED, NOT SURVEYED.

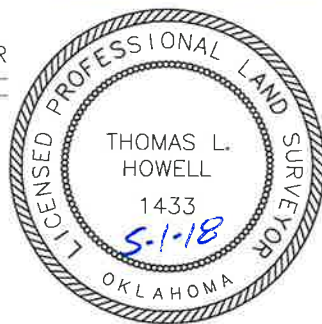
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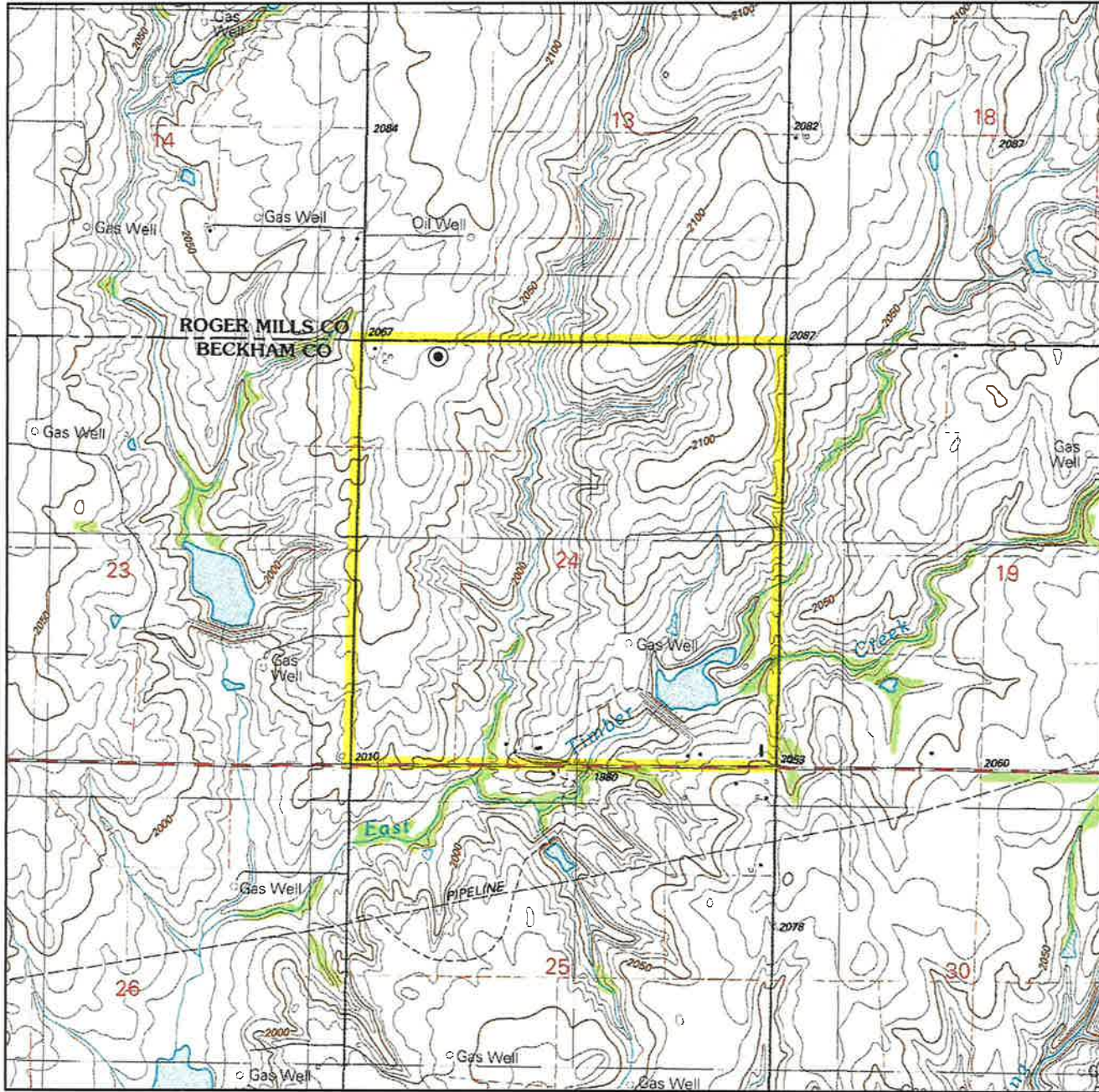
Thomas L. Howell
Oklahoma Lic. No. 1433



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. 24 Twp. 11N Rng. 23W IM

County BECKHAM State OK

Operator JMA ENERGY CO., LLC

Description 230'FNL-1000'FWL

Lease PLUMMER WOODS 1-13H

Elevation 2071' 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

Apr. 18, 2018

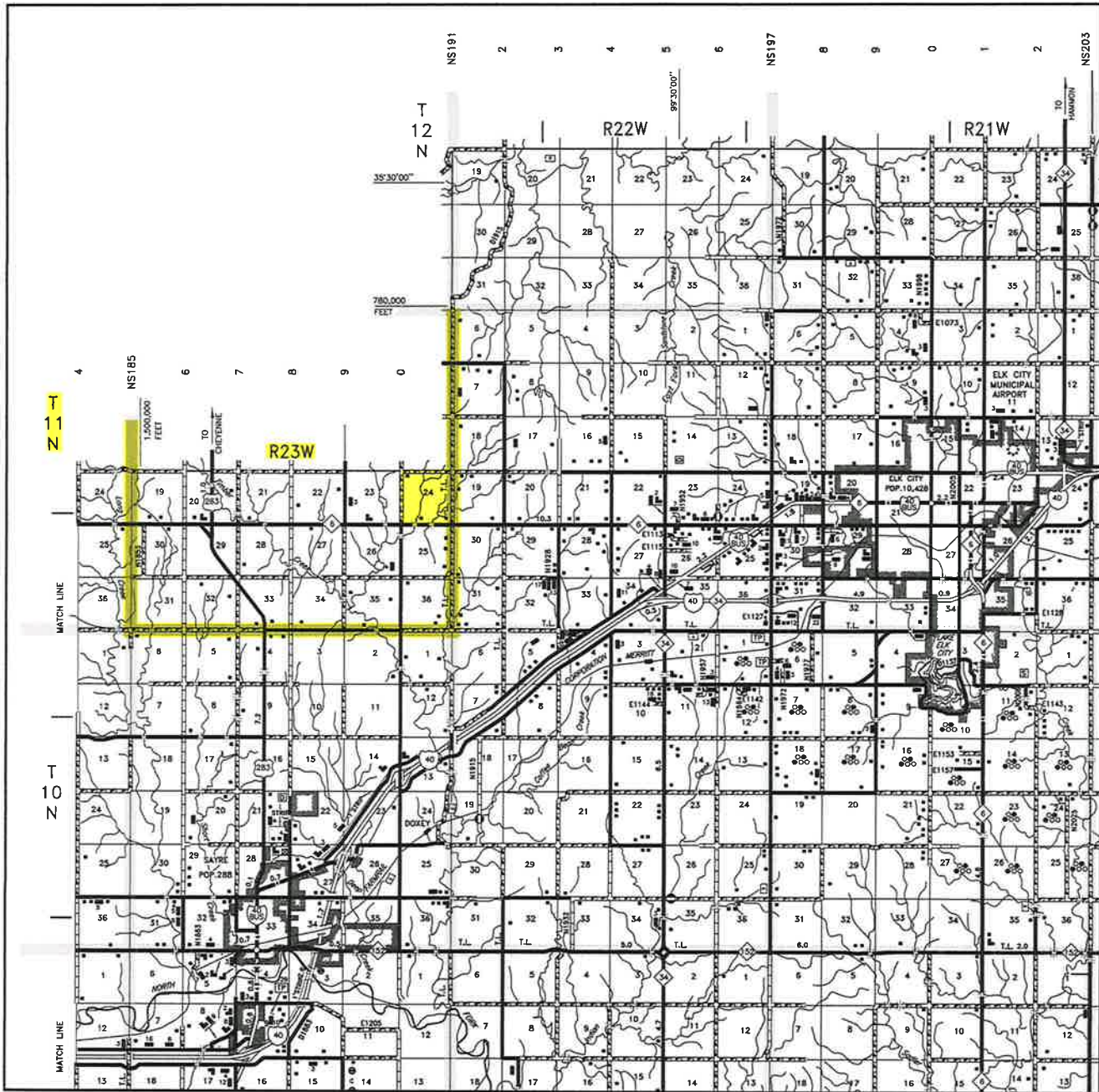
TOPOGRAPHIC LAND SURVEYORS OF OKLAHOMA

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

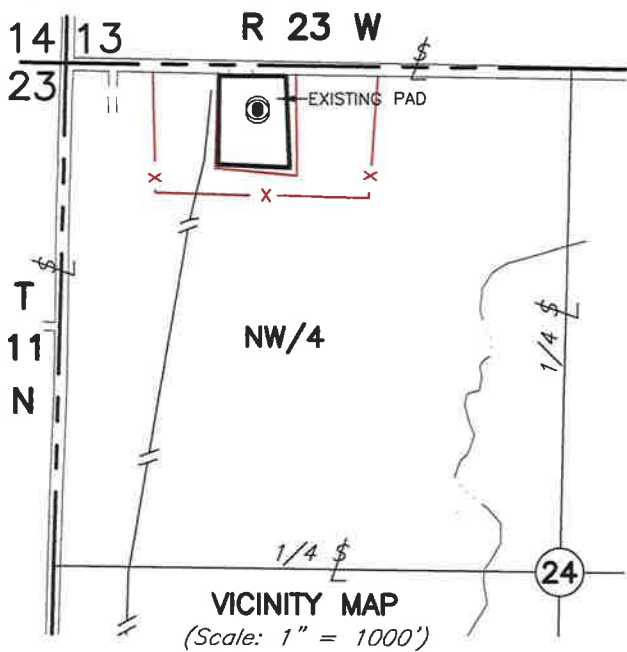
Sec. 24 Twp. 11N Rng. 23W IM

County BECKHAM State OK

Operator JMA ENERGY CO., LLC



LAND SURVEYORS OF OKLAHOMA



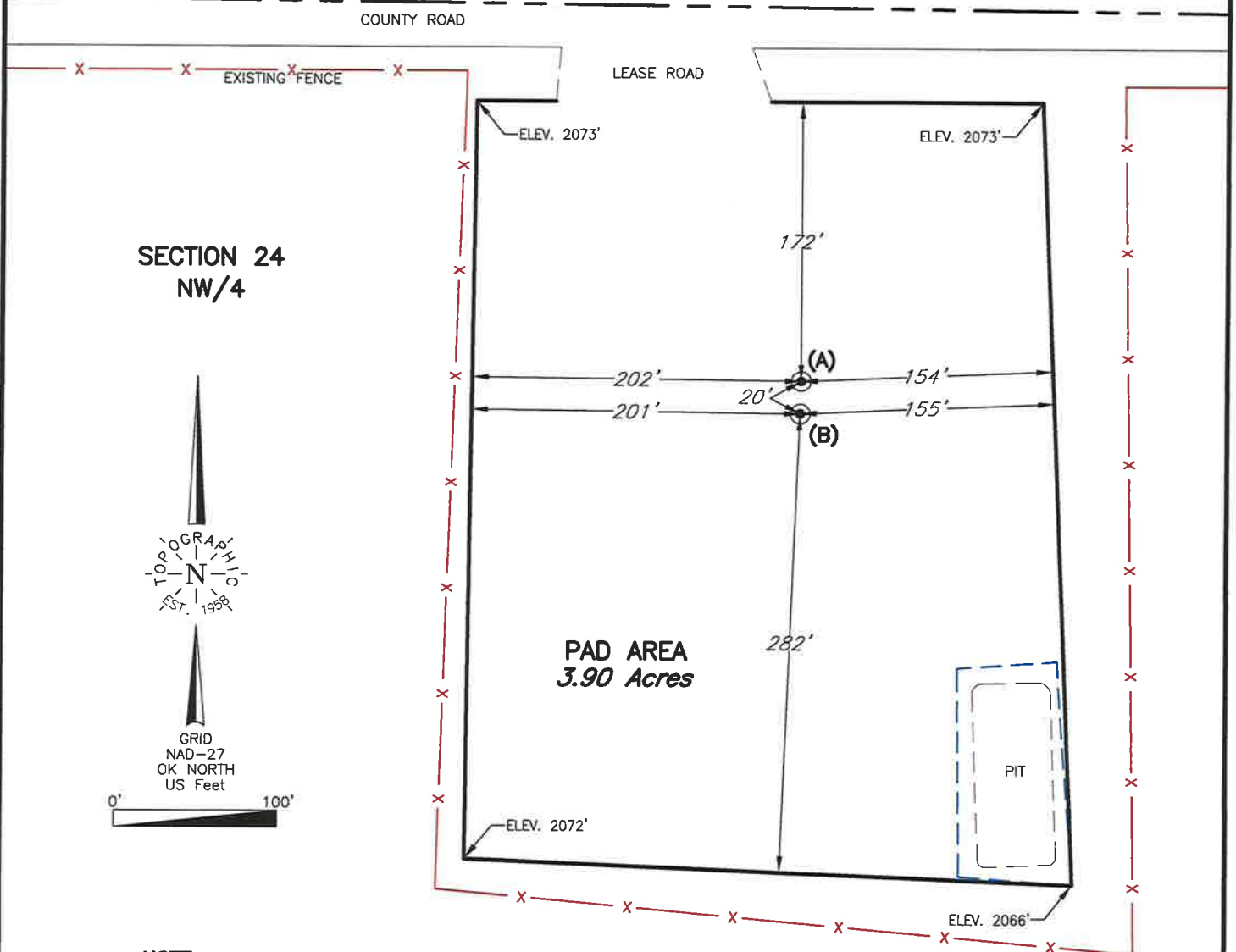
T 11 N - R 23 W
(INDIAN MERIDIAN)

PLAT SHOWING
EXISTING PAD AREA IN THE
NW/4 OF SECTION 24, T11N - R23W
BECKHAM COUNTY, OKLAHOMA



(A) JMA ENERGY CO., LLC
PLUMMER WOODS 1-13H
230'FNL-1000'FWL
Elev. 2071' Gr.

(B) JMA ENERGY CO., LLC
CHARLEY 2-24H
250'FNL-1000'FWL
Elev. 2069' Gr.



NOTE:

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for construction purposes ONLY.

				This plat was prepared exclusively for		SCALE: 1"=100'
				JMA ENERGY CO., LLC		DATE: 4/25/18
				and may not be relied upon by any other entity without the written consent of Topographic Land Surveyors of Oklahoma		INVOICE NO.: 291997
NO.	REVISION	DATE	BY	SURVEYING AND MAPPING BY		FILE NAME: L2040B.DWG
SUR. BY:	PJ	4/18/18		TOPOGRAPHIC LAND SURVEYORS OF OKLAHOMA		DWG NO.: 110008-L2-040-B
DRAWN BY:	TR			13800 Wireless Way, Okla. City, OK. 73134 (405) 843-4847		SHEET 1 OF 1
APPROVED BY:	TH			Certificate of Authorization No. 1293 LS		