

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

API NUMBER: 011 24054

Approval Date: 07/24/2018

Expiration Date: 01/24/2019

Horizontal Hole Oil & Gas

PERMIT TO DRILL

WELL LOCATION: Sec: 11 Twp: 15N Rge: 11W

County: BLAINE

SPOT LOCATION: ☐ SW ☐ SE ☐ SW ☐ SW

FEET FROM QUARTER: FROM SOUTH FROM WEST

SECTION LINES: 255 730

Lease Name: LEHMAN BIA

Well No: 2-11H

Well will be 255 feet from nearest unit or lease boundary.

Operator  
Name: CIMAREX ENERGY CO

Telephone: 9185851100

OTC/OCC Number: 21194 0

CIMAREX ENERGY CO  
202 S CHEYENNE AVE STE 1000  
TULSA, OK 74103-3001

BUREAU OF INDIAN AFFAIRS  
P O BOX 68  
CONCHO AGENCY  
EL RENO OK 73036

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

	Name	Depth	Name	Depth
1	MISSISSIPPIAN	9860	6	
2	WOODFORD	11375	7	
3			8	
4			9	
5			10	

Spacing Orders: 652593

Location Exception Orders:

Increased Density Orders:

Pending CD Numbers: 201803405  
201803401

Special Orders:

Total Depth: 15891

Ground Elevation: 1504

**Surface Casing: 1500**

Depth to base of Treatable Water-Bearing FM: 60

Under Federal Jurisdiction: Yes

Fresh Water Supply Well Drilled: No

Surface Water used to Drill: No

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: 10000 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 AP/TE DEPOSIT

Pit Location Formation: TERRACE

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

PERMIT NO: 18-33758

H. CLOSED SYSTEM=STEEL PITS PER OPERATOR REQUEST

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.

# HORIZONTAL HOLE 1

Sec 11 Twp 15N Rge 11W County BLAINE

Spot Location of End Point: NE NW NW NW

Feet From: NORTH 1/4 Section Line: 150

Feet From: WEST 1/4 Section Line: 450

Depth of Deviation: 10537

Radius of Turn: 591

Direction: 355

Total Length: 4426

Measured Total Depth: 15891

True Vertical Depth: 11375

End Point Location from Lease,  
Unit, or Property Line: 150

## Notes:

### Category

### Description

DEEP SURFACE CASING

6/7/2018 - 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

6/7/2018 - 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](http://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](http://FRACFOCUS.ORG)

INTERMEDIATE CASING

6/7/2018 - G71 - DUE TO THE KNOWN POTENTIAL RISK OF ENCOUNTERING AN OVER-PRESSURED ZONE IN THE MORROW SERIES IN THIS AREA, THE TECHNICAL MANAGER RECOMMENDS SETTING AN INTERMEDIATE STRING OF CASING IMMEDIATELY ABOVE THE MORROW SERIES

PENDING CD - 201803401

6/18/2018 - G58 - (I.O.) 11-15N-11W  
X652593 MSSP  
COMPL. INT. NCT 150' FSL, NCT 150' FNL, NCT 370' FWL  
NO OP. NAMED  
REC 5/21/2018 (DUNN)

PENDING CD - 201803405

6/18/2018 - G58 - 11-15N-11W  
X652593 MSSP  
4 WELLS  
NO OP. NAMED  
REC 5/21/2018 (DUNN)

SPACING - 652593

6/18/2018 - G58 - (640)(HOR) 11-15N-11W  
EST OTHERS  
EXT 649479 MSSP, WDFD  
COMPL. INT. (MSSP) NLT 660' FB  
COMPL. INT. (WDFD) NLT 165' FNL & FSL, NCT 330' FEL & FWL  
(COEXIST WITH SP. ORDER 222673 CSTR; OTHER)

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

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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.

011 24054 LEHMAN BIA 2-11H



Operator: CIMAREX ENERGY CO.

Lease Name: LEHMAN BIA

Well No.: 2-11H

**ELEVATION:**

1504' Gr. at Stake NGVD29

Topography & Vegetation Loc. fell in sloping wheat field.

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

Best Accessibility to Location From South off county road.

Distance & Direction  
from Hwy Jct or Town From the junction of St. Hwy. 33 and US Hwy, 270 in Watonga, OK,  
go East on St. Hwy, 33 ±4 miles, then South ±4 miles to the SW Cor. of Sec. 11-T15N-R11W.

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

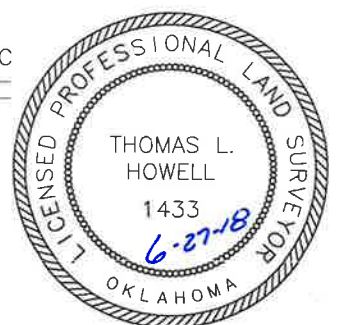
DATUM: NAD-27  
LAT: 35°47'01.4"N  
LONG: 98°20'45.6"W  
LAT: 35.783723957°N  
LONG: 98.345995261°W  
STATE PLANE  
COORDINATES: (US Feet)  
ZONE: OK NORTH  
X: 1897373  
Y: 285465

Revision ☒ B Date of Drawing: Jun. 26, 2018  
Invoice # 288030 Date Staked: Feb. 07, 2018 AC

**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

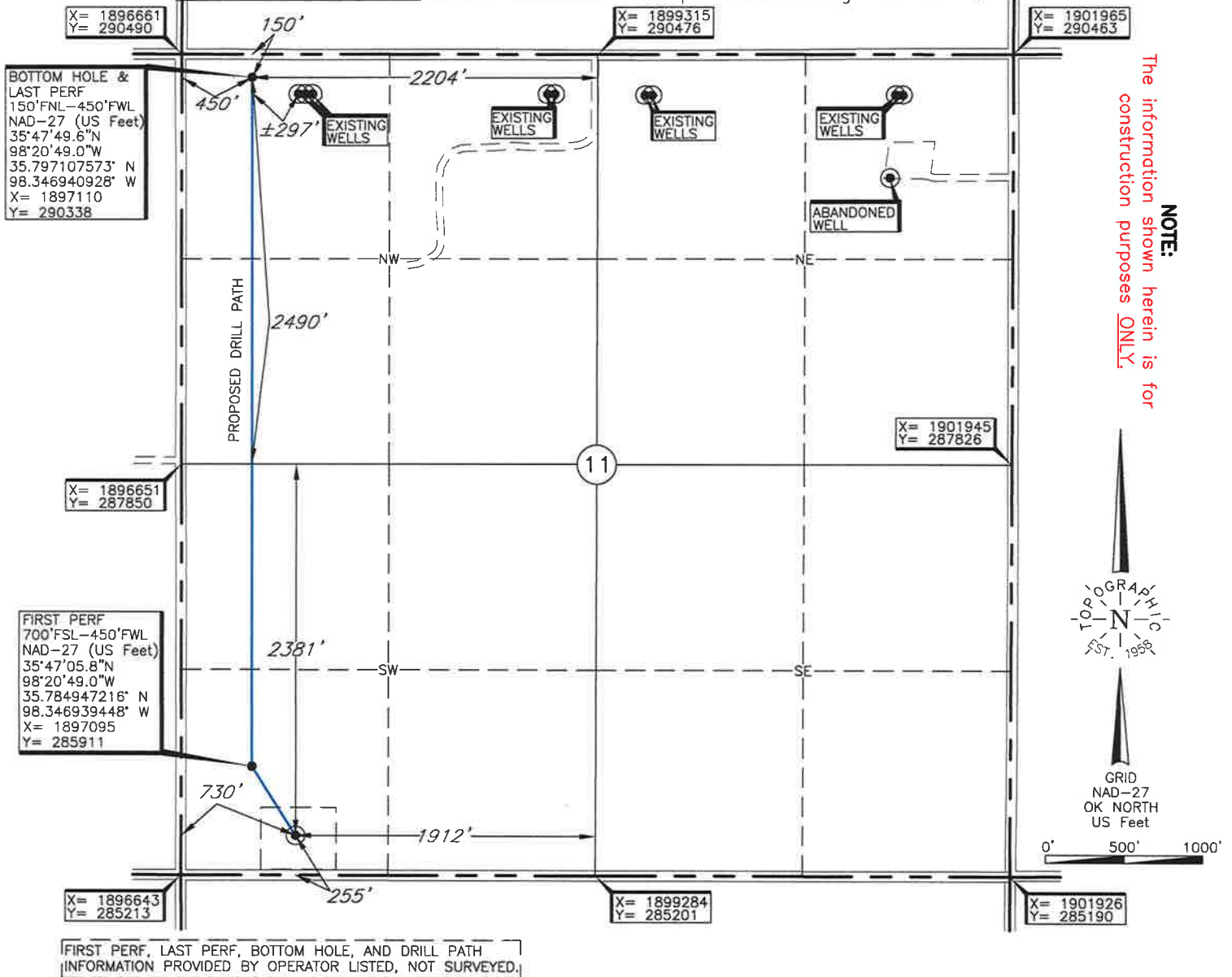
Certificate of Authorization No. 1293 LS

BLAINE

County, Oklahoma

011-24054

255' FSL - 730' FWL Section 11 Township 15N Range 11W I.M.



Operator: CIMAREX ENERGY CO.

Lease Name: LEHMAN BIA

Well No.: 2-11H

**ELEVATION:**

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Good Drill Site? Yes Reference Stakes or Alternate Location  
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BLAINE

County, Oklahoma

255' FSL - 730' FWL Section 11 Township 15N Range 11W I.M.



FIRST PERF, LAST PERF, BOTTOM HOLE, AND DRILL PATH  
INFORMATION PROVIDED BY OPERATOR LISTED, NOT SURVEYED.

Operator: CIMAREX ENERGY CO.

Lease Name: LEHMAN BIA

Well No.: 2-11H

**ELEVATION:**

1504' Gr. at Stake NAVD88

Topography & Vegetation Loc. fell in sloping wheat field.

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

Best Accessibility to Location From South off county road.

Distance & Direction

from Hwy Jct or Town From the junction of St. Hwy. 33 and US Hwy, 270 in Watonga, OK,

go East on St. Hwy. 33 ±4 miles, then South ±4 miles to the SW Cor. of Sec. 11-T15N-R11W.

DATUM: NAD-83  
LAT: 35°47'01.6"N  
LONG: 98°20'46.8"W  
LAT: 35.78377053"N  
LONG: 98.34633933"W  
STATE PLANE  
COORDINATES: (US Feet)  
ZONE: OK NORTH  
X: 1865773  
Y: 285489

Revision ☒ E

Date of Drawing: Jun. 26, 2018

Invoice # 288030

Date Staked: Feb. 07, 2018

AC

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Oklahoma Lic. No. 1433



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**TOPOGRAPHIC LAND SURVEYORS OF OKLAHOMA**

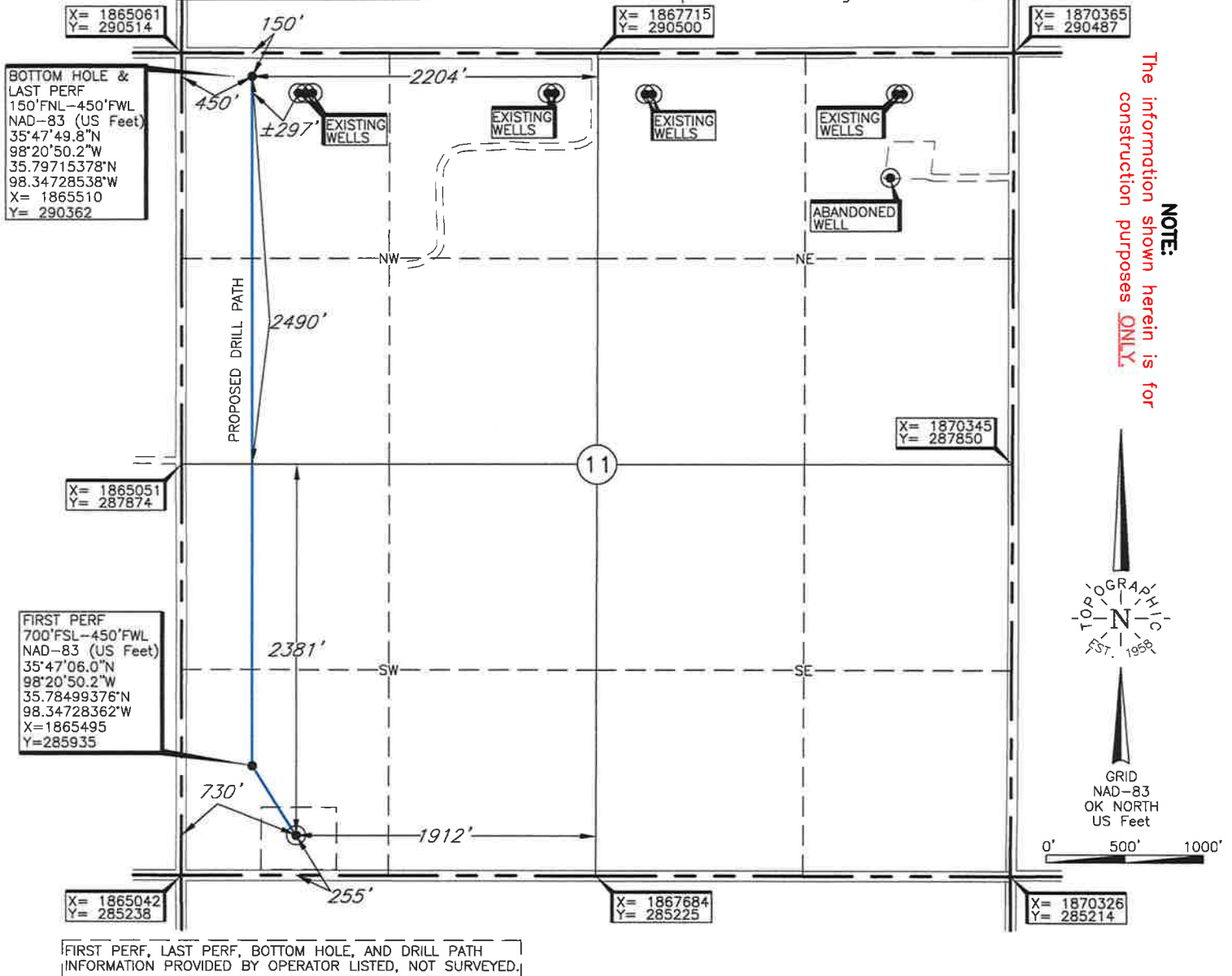
13800 WIRELESS WAY, OKLA. CITY, OKLA. 73134 \* LOCAL (405) 843-4847 \* OUT OF STATE (800) 654-3219

Certificate of Authorization No. 1293 LS

BLAINE

County, Oklahoma

255'FSL - 730'FWL Section 11 Township 15N Range 11W I.M.

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AC

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Surveyor and an authorized agent of Topographic Land  
Surveyors of Oklahoma, do hereby certify to the  
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Oklahoma Lic. No. 1433

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**STATE PLANE**  
**COORDINATES:** (US Feet)  
**ZONE:** OK NORTH  
**X:** 1865773  
**Y:** 285489

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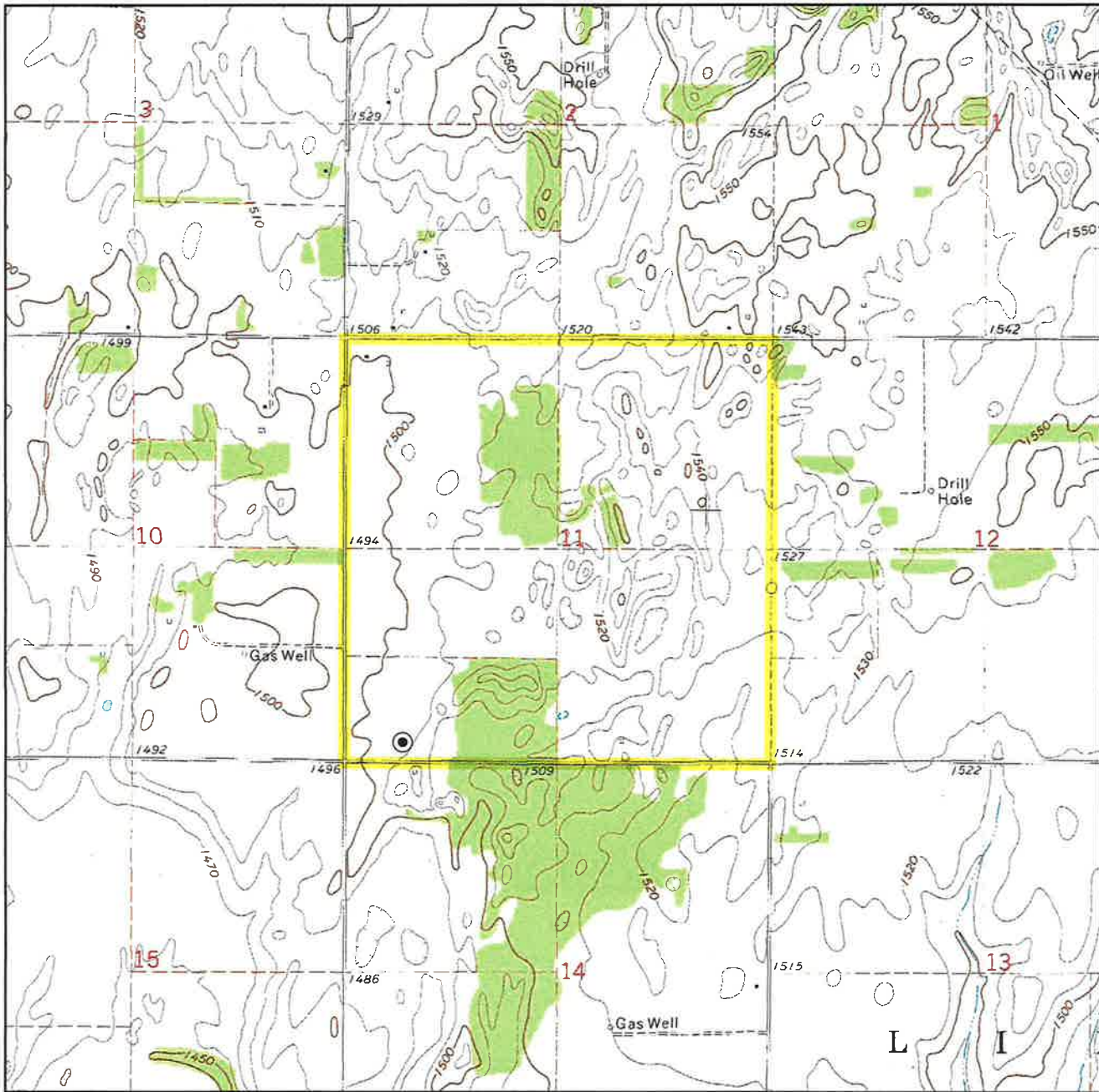
# TOPOGRAPHIC LAND SURVEYORS OF OKLAHOMA

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. 11 Twp. 15N Rng. 11W IM

County BLAINE State OK

Operator CIMAREX ENERGY CO.

Description 255' FSL - 730' FWL

Lease LEHMAN BIA 2-11H

Elevation 1504' Gr. at Stake NGVD29  
1504' Gr. at Stake NAVD88

U.S.G.S. Topographic  
Quadrangle Map WATONGA SE, OK

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

Feb. 07, 2018



# TOPOGRAPHIC LAND SURVEYORS OF OKLAHOMA

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## VICINITY MAP



Scale: 1" = 3 Miles

Sec. 11 Twp. 15N Rng. 11W IM

County BLAINE State OK

Operator CIMAREX ENERGY CO.



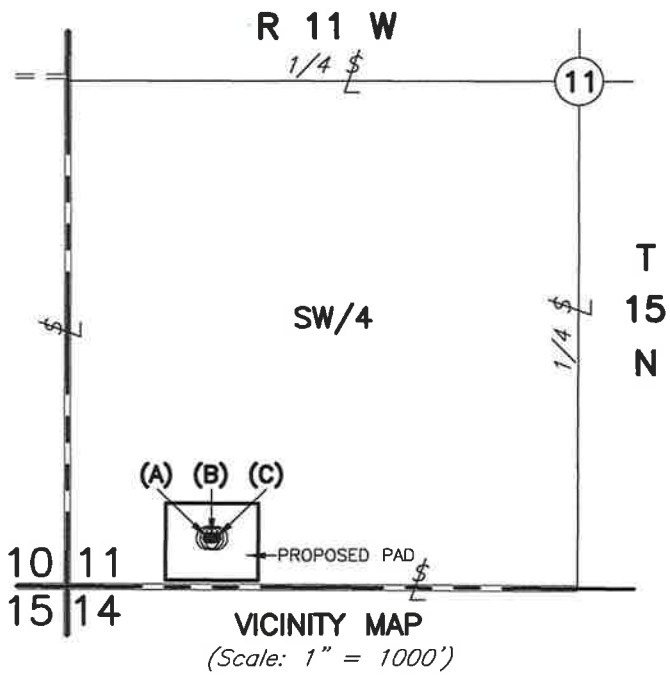
**TOPOGRAPHIC**  
LOYALTY INNOVATION LEGACY

**LAND SURVEYORS OF OKLAHOMA**



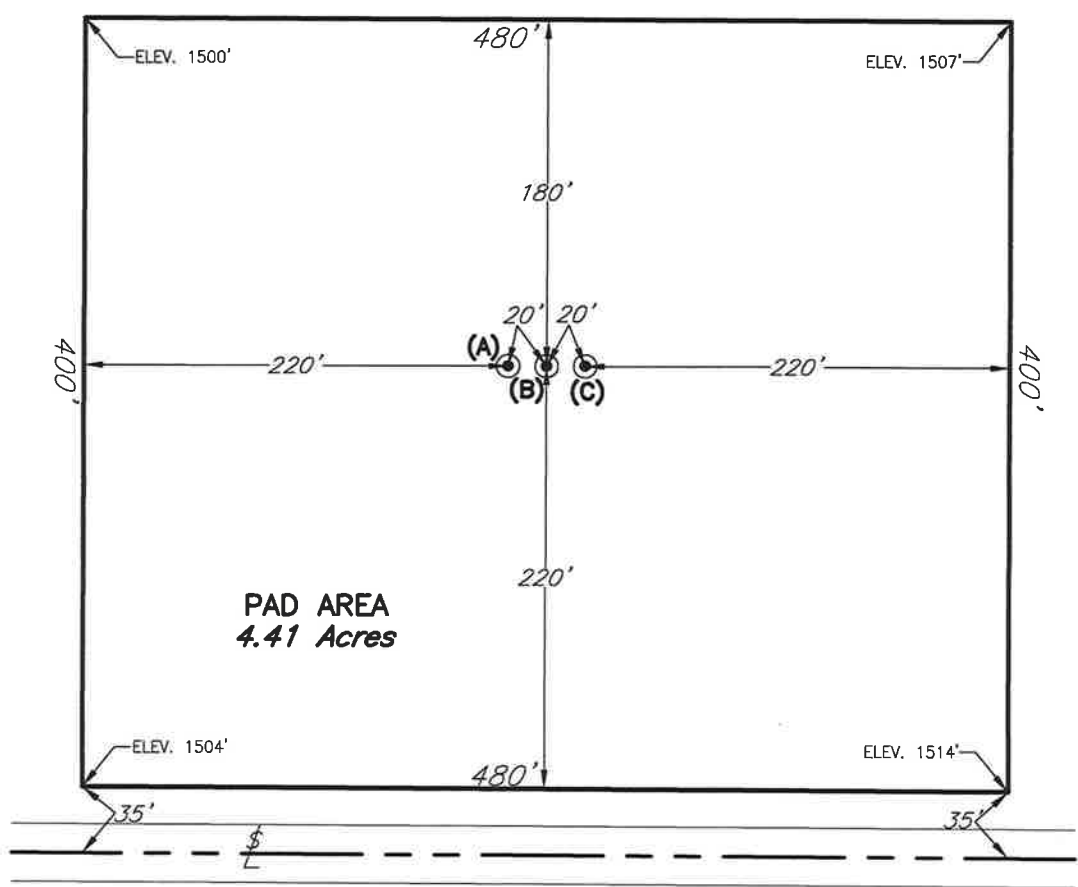
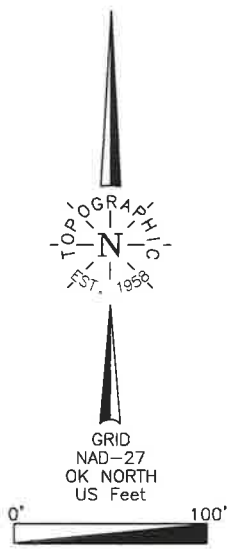
T 15 N – R 11 W  
(INDIAN MERIDIAN)

PLAT SHOWING  
PROPOSED PAD AREA IN THE  
SW/4 OF SECTION 11, T15N – R11W  
BLAINE COUNTY, OKLAHOMA



- (A) CIMAREX ENERGY CO.  
LEHMAN BIA 2-11H  
255'FSL-730'FWL  
Elev. 1504' Gr.
- (B) CIMAREX ENERGY CO.  
HOPPINS COTCH BIA 1-11H  
255'FSL-750'FWL  
Elev. 1505' Gr.
- (C) CIMAREX ENERGY CO.  
LEHMAN BIA 3-11H  
255'FSL-770'FWL  
Elev. 1505' Gr.

SECTION 11  
SW/4



NOTE:  
Location is not in a flood plain.  
The information shown herein is  
for construction purposes ONLY.

				This plat was prepared exclusively for		SCALE: 1"=100'
				<b>CIMAREX ENERGY CO.</b>		DATE: 2/15/2018
				and may not be relied upon by any other entity without the written consent of Topographic Land Surveyors of Oklahoma		INVOICE NO.: 288030
NO.	REVISION	DATE	BY	SURVEYING AND MAPPING BY		FILE NAME: L2170B.DWG
SUR. BY:	ES	2/15/18		<b>TOPOGRAPHIC LAND SURVEYORS OF OKLAHOMA</b>		DWG NO.: 103134-L2-170-B
DRAWN BY:	AC			13800 Wireless Way, Okla. City, OK. 73134 (405) 843-4847		SHEET 1 OF 1
APPROVED BY:	TH			Certificate of Authorization No. 1293 LS		