

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

API NUMBER: 015 23314

Approval Date: 08/09/2019

Expiration Date: 02/09/2021

Horizontal Hole Oil & Gas

PERMIT TO DRILL

WELL LOCATION: Sec: 21 Twp: 10N Rge: 10W

County: CADD0

SPOT LOCATION: ☐ SW ☐ SE ☐ SE ☐ SW

FEET FROM QUARTER: FROM SOUTH FROM WEST

SECTION LINES: 250 2200

Lease Name: BOWLING

Well No: 1H-21-16

Well will be 250 feet from nearest unit or lease boundary.

Operator Name: CITIZEN ENERGY III LLC

Telephone: 9189494680

OTC/OCC Number: 24120 0

CITIZEN ENERGY III LLC  
320 S BOSTON AVE STE 900  
TULSA, OK 74103-3729

BENNY ALLEN BOWLING  
P.O. BOX C  
BINGER OK 73009

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

|   | Name     | Depth | Name | Depth |
|---|----------|-------|------|-------|
| 1 | CHEROKEE | 12500 | 6    |       |
| 2 |          |       | 7    |       |
| 3 |          |       | 8    |       |
| 4 |          |       | 9    |       |
| 5 |          |       | 10   |       |

Spacing Orders: No Spacing

Location Exception Orders:

Increased Density Orders:

Pending CD Numbers: 201903730  
201903731

Special Orders:

Total Depth: 23778

Ground Elevation: 1523

**Surface Casing: 1000**

Depth to base of Treatable Water-Bearing FM: 290

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: RUSH SPRINGS

D. One time land application -- (REQUIRES PERMIT) PERMIT NO: 19-36862  
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: RUSH SPRINGS

HORIZONTAL HOLE 1

Sec 16 Twp 10N Rge 10W County CADDO

Spot Location of End Point: NE NE NE NW

Feet From: NORTH 1/4 Section Line: 165

Feet From: WEST 1/4 Section Line: 2328

Depth of Deviation: 12824

Radius of Turn: 477

Direction: 360

Total Length: 10205

Measured Total Depth: 23778

True Vertical Depth: 12550

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

| Additional Surface Owner | Address    | City, State, Zip |
|--------------------------|------------|------------------|
| BENNY ALLEN BOWLING      | P.O. BOX C | BINGER, OK 73009 |

Notes:

Category

Description

DEEP SURFACE CASING

8/6/2019 - 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

8/6/2019 - 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: [OCCWEB.COM/OG/OGFORMS.HTML](http://OCCWEB.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)

MEMO

8/6/2019 - G71 - PITS 1 & 2 - CLOSED SYSTEM=STEEL PITS PER OPERATOR REQUEST, PIT 2 - OBM RETURNED TO VENDOR, CUTTINGS PERMITTED PER DISTRICT

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

015 23314 BOWLING 1H-21-16

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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.

| Category               | Description   |
|------------------------|---|
| PENDING CD - 201903730 | 8/9/2019 - GB6 - (I.O.) (1280)(HOR) 16 & 21 -10N-10W<br>EST CHRK<br>VAC 86233 SKNRL, RDFK<br>VAC 90583 DEESU<br>POE TO BHL NCT 660' FB<br>REC. 8/5/2019 (MOORE)   |
| PENDING CD - 201903731 | 8/9/2019 - GB6 - (E.O.) 16 & 21 -10N-10W<br>X201903730 CHRK<br>SHL 250' FSL 2200' FWL 21-10N-10W<br>COMPL. INT. (21-10N-10W) NCT 165' FLS, NCT 0' FNL, NCT 660' FWL<br>COMPL. INT. (16-10N-10W) NCT 0' FLS, NCT 165' FNL, NCT 660' FWL<br>CITIZEN ENERGY III, LLC<br>REC 8/5/2019 (MOORE) |



# Well Location Plat

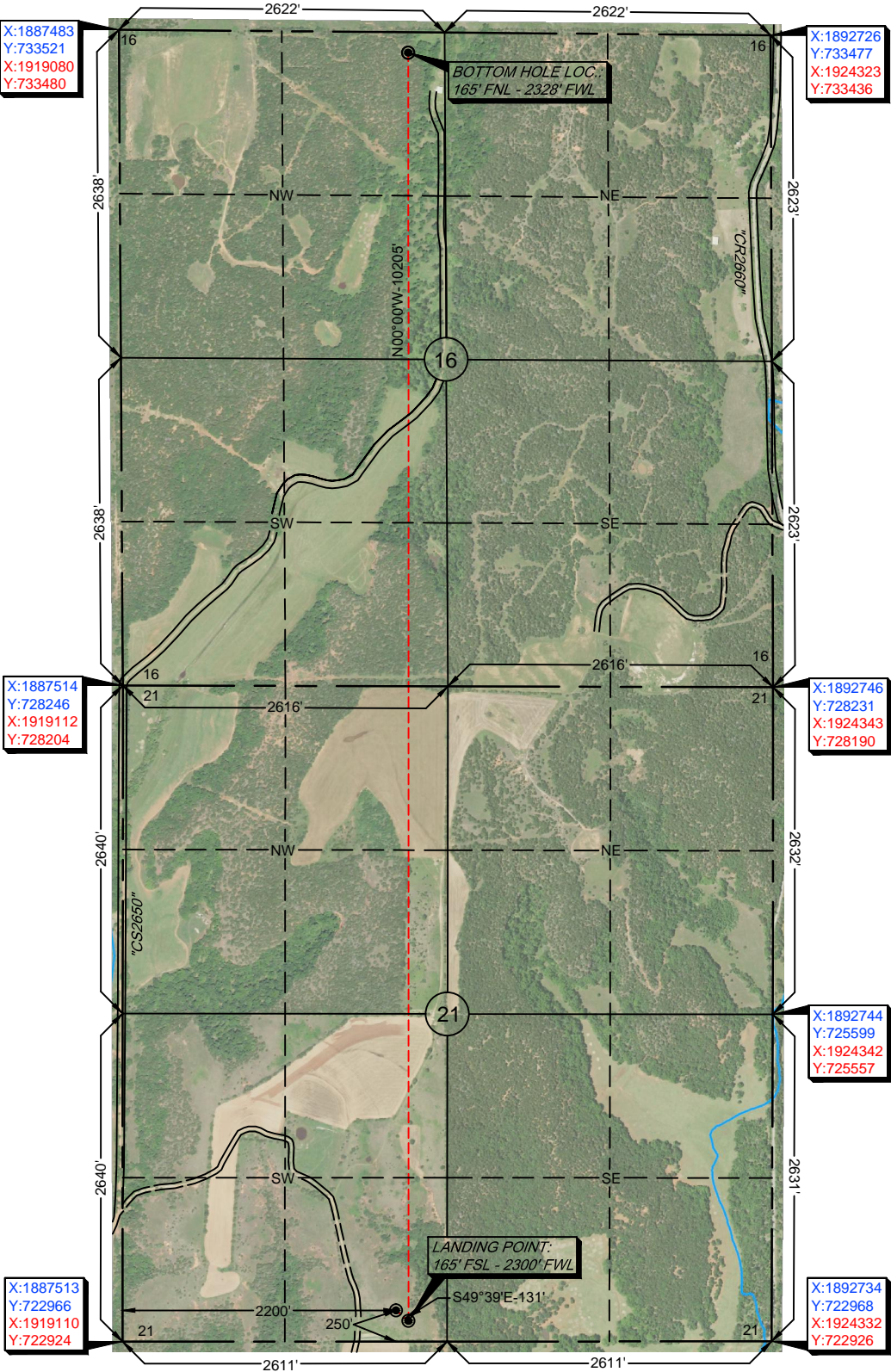
S.H.L. Sec. 21-10N-10W I.M.  
B.H.L. Sec. 16-10N-10W I.M.

Operator: CITIZEN ENERGY, LLC  
Lease Name and No.: BOWLING 1H-21-16  
Footage: 250' FSL - 2200' FWL Gr. Elevation: 1523'  
Section: 21 Township: 10N Range: 10W I.M.  
County: Caddo State of Oklahoma  
Terrain at Loc.: Location fell in rolling pasture with scrub brush, an existing fence to the South, and a ravine toward the Northeast corner of the pad.

015-23314



All bearings shown  
are grid bearings.



GPS DATUM

NAD 83

NAD 27

OK SOUTH ZONE

Surface Hole Loc.:  
Lat: 35°19'12.93"N  
Lon: 98°15'50.72"W  
Lat: 35.32025959  
Lon: -98.26408910  
X: 1889713  
Y: 723217

Surface Hole Loc.:  
Lat: 35°19'12.73"N  
Lon: 98°15'49.52"W  
Lat: 35.32020296  
Lon: -98.26375650  
X: 1921310  
Y: 723175

Landing Point:  
Lat: 35°19'12.10"N  
Lon: 98°15'49.51"W  
Lat: 35.32002690  
Lon: -98.26375324  
X: 1889813  
Y: 723132

Landing Point:  
Lat: 35°19'11.89"N  
Lon: 98°15'48.31"W  
Lat: 35.31997026  
Lon: -98.26342065  
X: 1921410  
Y: 723090

Bottom Hole Loc.:  
Lat: 35°20'53.02"N  
Lon: 98°15'49.84"W  
Lat: 35.34806201  
Lon: -98.26384554  
X: 1889812  
Y: 733337

Bottom Hole Loc.:  
Lat: 35°20'52.82"N  
Lon: 98°15'48.64"W  
Lat: 35.34800614  
Lon: -98.26351243  
X: 1921410  
Y: 733295

-Please note that this location was staked on the ground under the supervision of a Licensed Professional Land Surveyor, but the accuracy of this survey is not guaranteed. Please contact Arkoma Surveying and Mapping promptly if any inconsistency is determined. GPS data is observed from RTK - GPS.  
-NOTE: X and Y data shown hereon for Section Corners may NOT have been surveyed on-the-ground, and further, does NOT represent a true Boundary Survey.  
-Quarter Section distances may be assumed from a Government Survey Plat or assumed at a proportionate distance from opposing section corners, or occupation thereof, and may not have been measured on-the-ground, and further, does not represent a true boundary survey.

Survey and plat by:  
Arkoma Surveying and Mapping, PLLC  
P.O. Box 238 Wilburton, OK 74578  
Ph. 918-465-5711 Fax 918-465-5030  
Certificate of Authorization No. 5348  
Expires June 30, 2020

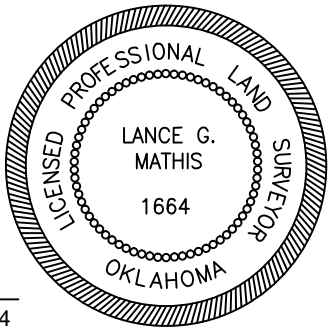
## Certification:

This is to certify that this Well Location Plat represents the results of a survey made on the ground performed under the supervision of the undersigned.

LANCE G. MATHIS

07/16/19

OK LPLS 1664



Invoice #8749

Date Staked: 07/10/19 By: J.W.  
Date Drawn: 07/11/19 By: E.W.

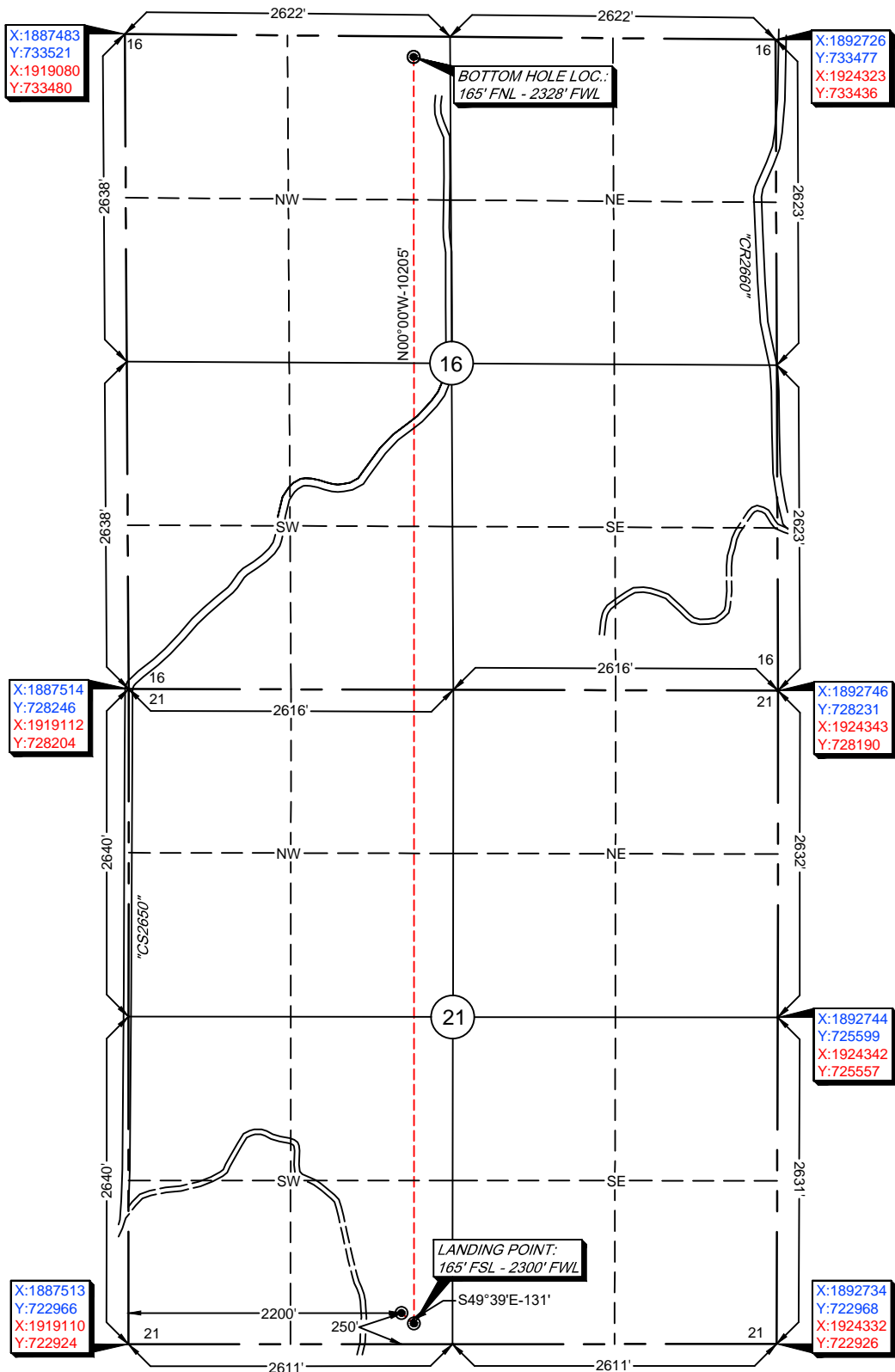
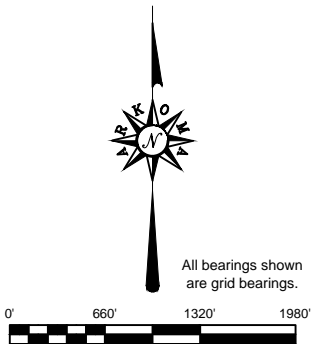




# Well Location Plat

S.H.L. Sec. 21-10N-10W I.M.  
B.H.L. Sec. 16-10N-10W I.M.

Operator: CITIZEN ENERGY, LLC  
Lease Name and No.: BOWLING 1H-21-16  
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County: Caddo State of Oklahoma  
Terrain at Loc.: Location fell in rolling pasture with scrub brush, an existing fence to the South, and a ravine toward the Northeast corner of the pad.



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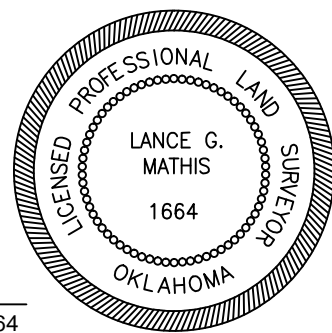
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LANCE G. MATHIS

07/16/19

OK LPLS 1664



Invoice #8749

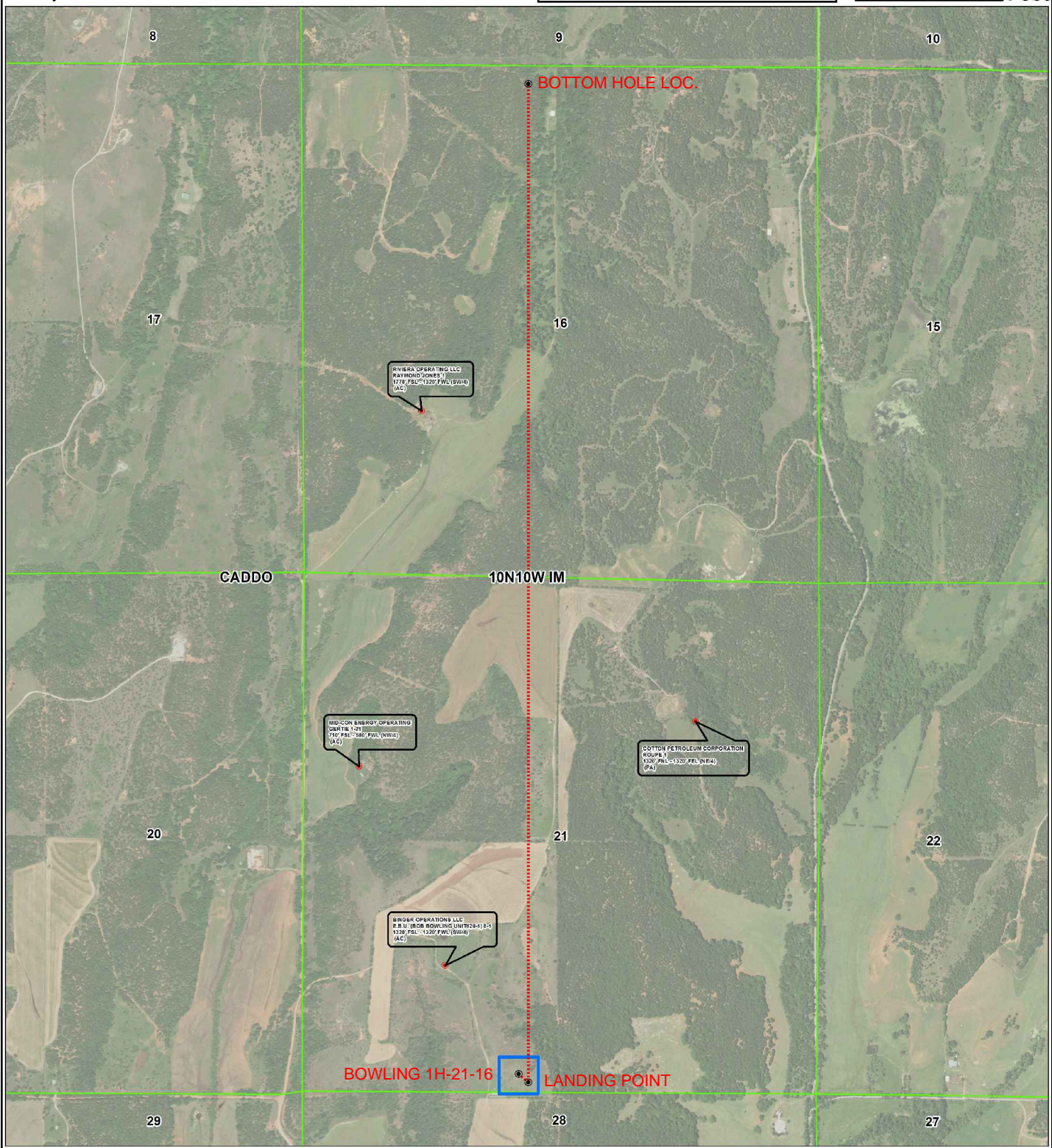
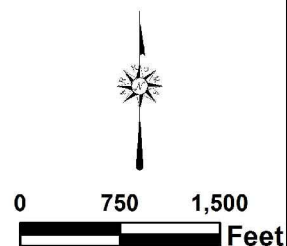
Date Staked: 07/10/19 By: J.W.  
Date Drawn: 07/11/19 By: E.W.



# Anti-Collision

Sec. 21-10N-10W I.M.

Operator: CITIZEN ENERGY, LLC  
Lease Name and No.: BOWLING 1H-21-16  
Surface Hole Location: 250' FSL - 2200' FWL  
Landing Point: 165' FSL - 2300' FWL  
Sec. 21 Twp. 10N Rng. 10W I.M.  
Bottom Hole Location: 165' FNL - 2328' FWL  
Sec. 16 Twp. 10N Rng. 10W I.M.  
County: Caddo State of Oklahoma







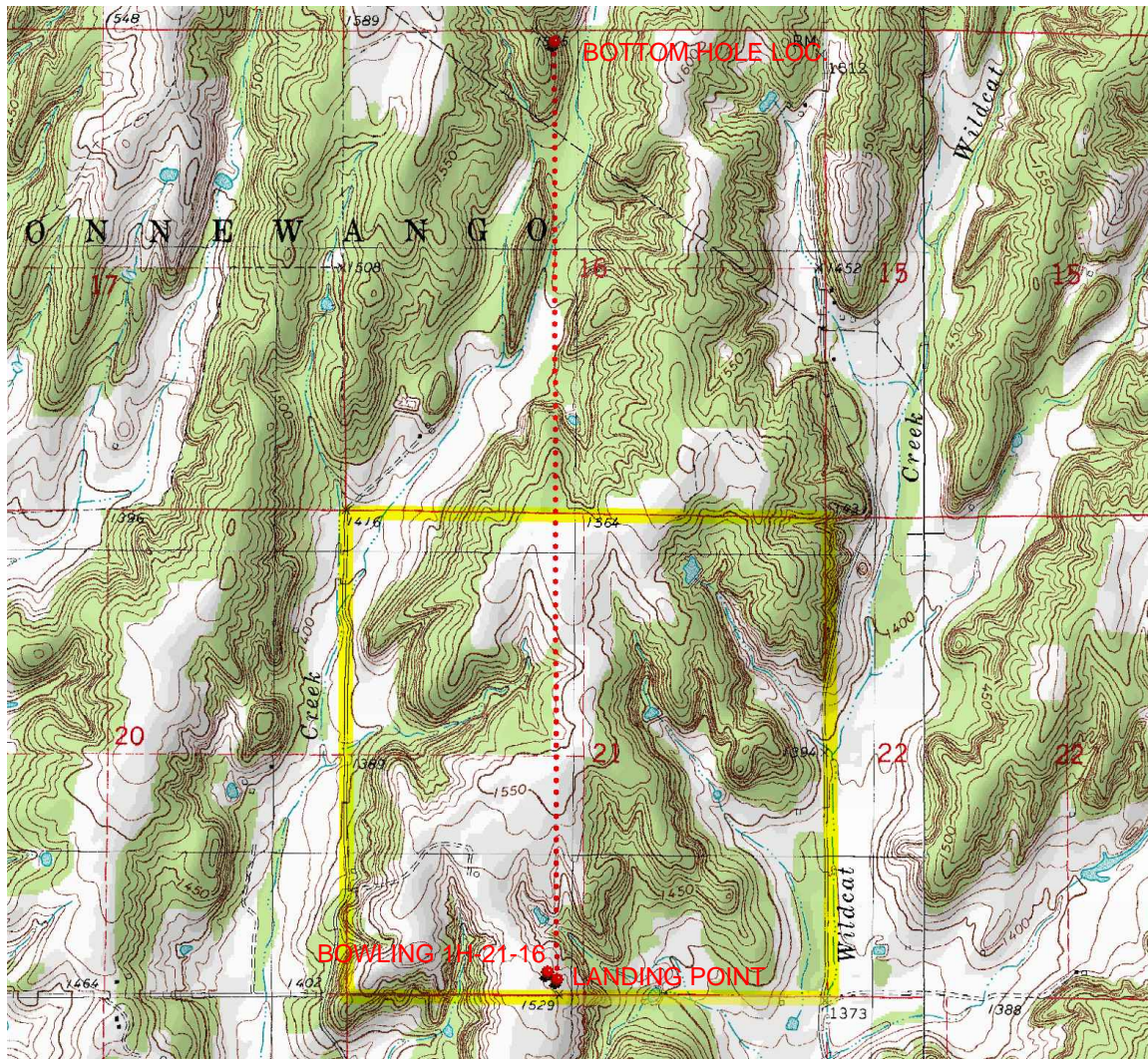
# Topographic Vicinity Map

Operator: CITIZEN ENERGY, LLC  
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Sec. 16 Twp. 10N Rng. 10W I.M.  
County: Caddo State of Oklahoma



Scale 1" = 2000'  
Contour Interval: 10'

Ground Elevation at Surface Hole Location: 1523'



Provided by:  
Arkoma Surveying and Mapping, PLLC  
P.O. Box 238 Wilburton, OK 74578  
Ph. 918-465-5711 Fax 918-465-5030

Certificate of Authorization No. 5348  
Expires June 30, 2020

Date Staked: 07/10/19

The purpose of this map is to verify the location and elevation as staked on the ground and to show the surrounding Topographic features. The footage shown hereon is only as SCALED onto a U.S.G.S. Topographic Map.

Please note that this location was staked carefully on the ground under the supervision of a Licensed Professional Land Surveyor, but the accuracy of this survey is not guaranteed.

Please contact Arkoma Surveying and Mapping promptly if any inconsistency is determined.



# County Highway Vicinity Map

Job #: 8749

Operator: CITIZEN ENERGY, LLC

Lease Name and No.: BOWLING 1H-21-16

Accessibility: From the South.

Directions: From the junction of State HWY 152 & US HWY 281 in the town of Binger, OK, go 4.4 miles East on State HWY 152, then go 1.9 miles North on "County Street 2650" to the Southwest Quarter Section 21-10N-10W on the East side of the road.



1 inch = 0.75 mile

provided by:  
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