

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

API NUMBER: 017 25515

Approval Date: 08/29/2019

Expiration Date: 02/28/2021

Straight Hole

Stratigraphic Test

PERMIT TO DRILL

WELL LOCATION: Sec: 27 Twp: 14N Rge: 8W

County: CANADIAN

SPOT LOCATION: ☐ NW ☐ NE ☐ NW ☐ NE

FEET FROM QUARTER: FROM NORTH FROM EAST

SECTION LINES: 295 1795

Lease Name: HEUPEL

Well No: 2H-22

Well will be 295 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

WESLEY CARL HEUPEL  
6975 192ND NW  
OKARCHE OK 73762

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

Name	Depth	Name	Depth
1 WOODFORD	10000	6	
2		7	
3		8	
4		9	
5		10	

Spacing Orders: 629067

Location Exception Orders:

Increased Density Orders:

Pending CD Numbers:

Special Orders:

Total Depth: 15302

Ground Elevation: 1239

**Surface Casing: 1000**

Depth to base of Treatable Water-Bearing FM: 310

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: FLOWERPOT

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

PERMIT NO: 19-36887

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: FLOWERPOT

Notes:

Category

Description

DEEP SURFACE CASING

8/22/2019 - 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

INTENT TO DRILL

8/29/2019 - GB1 - THIS WELL HAS BEEN APPROVED AS A STRATIGRAPHIC TEST WITH THE INTENT TO SET SURFACE CASING ONLY. OPERATOR WILL FILE AN AMENDED FORM 1000 CHANGING THE TYPE OF DRILLING OPERATION AT A LATER DATE.

INTERMEDIATE CASING

8/22/2019 - 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

MEMO

8/22/2019 - G71 - PITS 1 & 2 - CLOSED SYSTEM=STEEL PITS PER OPERATOR REQUEST, PIT 2 - OBM RETURNED TO VENDOR, CUTTINGS PERMITTED PER DISTRICT

SPACING

8/29/2019 - GB1 - NA - STRATIGRAPHIC TEST

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.

017 25515 HEUPEL 2H-22



# Well Location Plat

S.H.L. Sec. 27-14N-8W I.M.  
B.H.L. Sec. 22-14N-8W I.M.

Operator: CITIZEN ENERGY, LLC  
Lease Name and No.: HEUPEL 2H-22  
Footage: 295' FNL - 1795' FEL Gr. Elevation: 1239'  
Section: 27 Township: 14N Range: 8W I.M.  
County: Canadian State of Oklahoma  
Terrain at Loc.: Location fell in alfalfa field, South of an existing fence and aerial power line.

API 017-25515

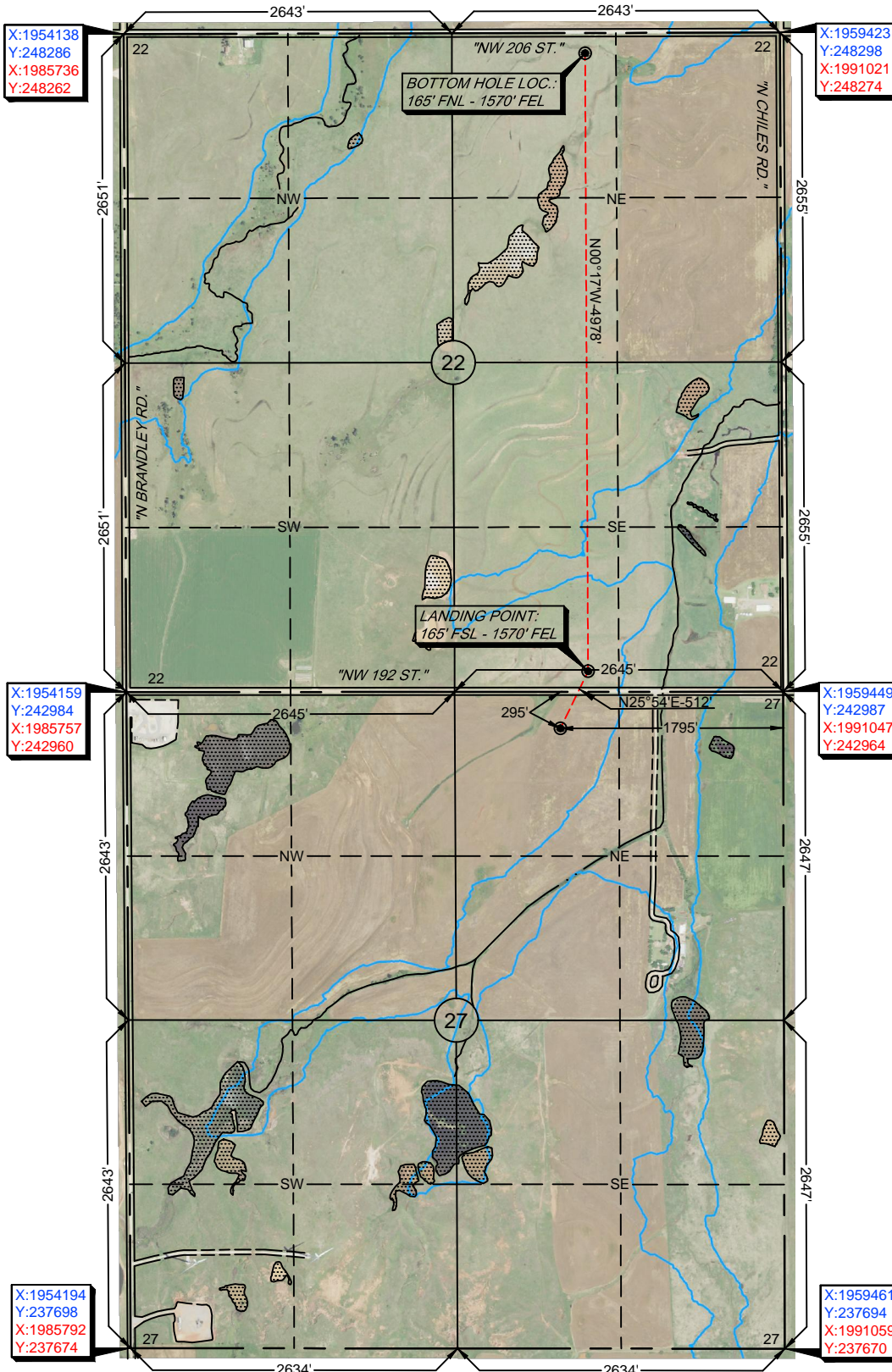


All bearings shown  
are grid bearings.

0' 660' 1320' 1980'  
1" = 1320'

GPS DATUM  
NAD 83  
NAD 27  
OK NORTH ZONE

Surface Hole Loc.:
Lat: 35°40'00.10"N
Lon: 98°02'11.44"W
Lat: 35.66669556
Lon: -98.03651151
X: 1957654
Y: 242691
Surface Hole Loc.:
Lat: 35°39'59.93"N
Lon: 98°02'10.25"W
Lat: 35.66664800
Lon: -98.03618030
X: 1989253
Y: 242667
Landing Point:
Lat: 35°40'04.66"N
Lon: 98°02'08.74"W
Lat: 35.66795990
Lon: -98.03575974
X: 1957878
Y: 243151
Landing Point:
Lat: 35°40'04.48"N
Lon: 98°02'07.54"W
Lat: 35.66791237
Lon: -98.03542853
X: 1989476
Y: 243128
Bottom Hole Loc.:
Lat: 35°40'53.88"N
Lon: 98°02'09.05"W
Lat: 35.68163439
Lon: -98.03584758
X: 1957854
Y: 248129
Bottom Hole Loc.:
Lat: 35°40'53.71"N
Lon: 98°02'07.86"W
Lat: 35.68158723
Lon: -98.03551618
X: 1989452
Y: 248105



-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:

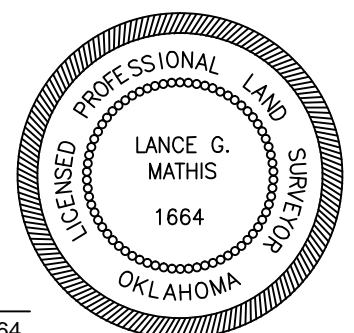
This is to certify that this Well Location Plat represents the results of a survey made on the ground performed under the supervision of the undersigned.

Invoice #8788-B  
Date Staked: 07/29/19 By: J.W.  
Date Drawn: 07/30/19 By: E.W.

LANCE G. MATHIS

08/05/19

OK LPLS 1664





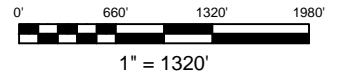
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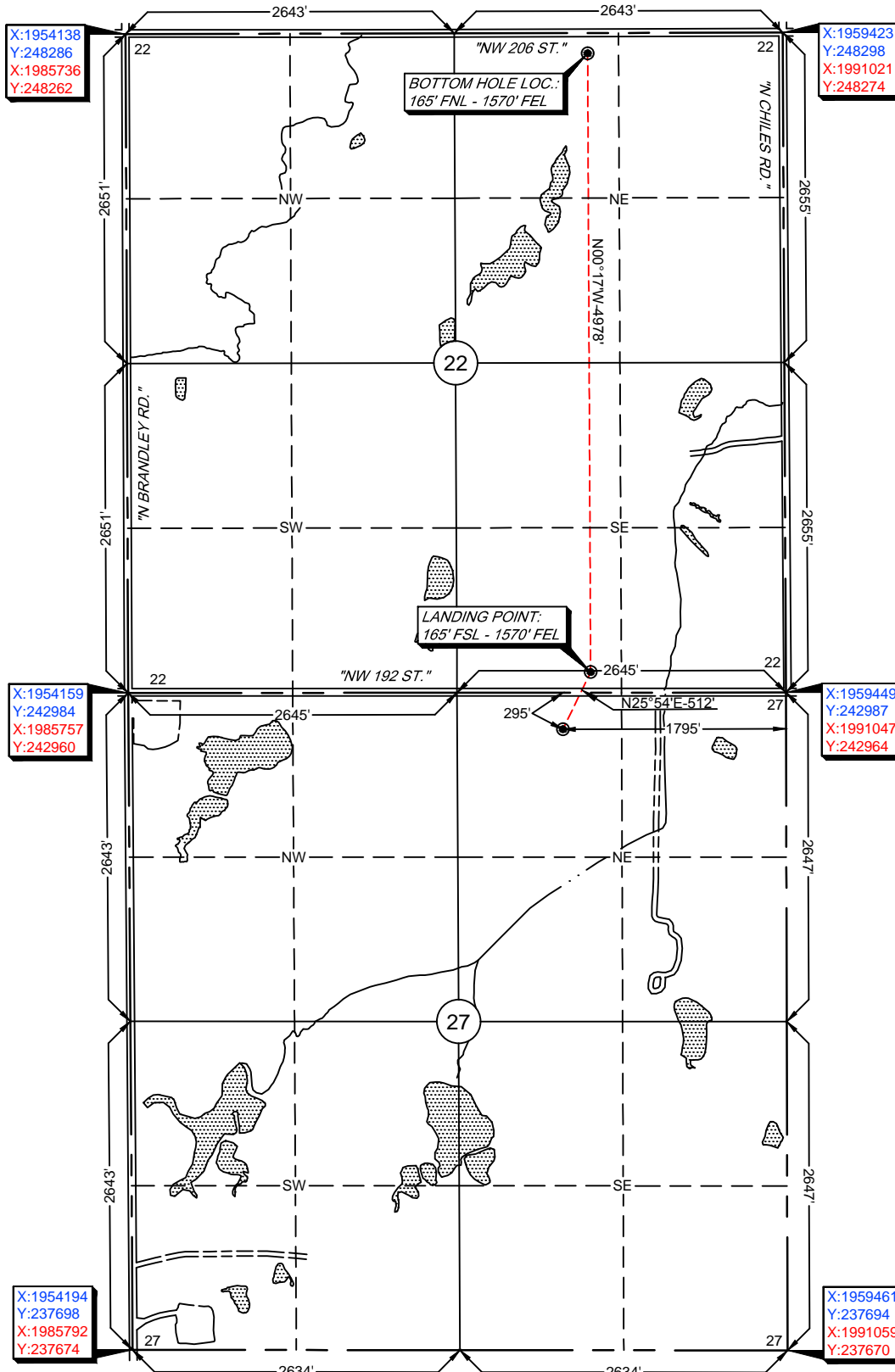


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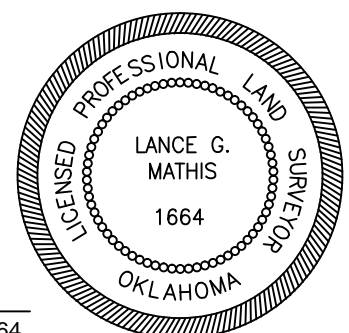
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LANCE G. MATHIS

08/05/19

OK LPLS 1664







# Anti-Collision

Sec. 27-14N-8W I.M.

Operator: CITIZEN ENERGY, LLC

Lease Name and No.: HEUPEL 2H-22

Surface Hole Location: 295' FNL - 1795' FEL

Sec. 27 Twp. 14N Rng. 8W I.M.

Landing Point: 165' FSL - 1570' FEL

Bottom Hole Location: 165' FNL - 1570' FEL

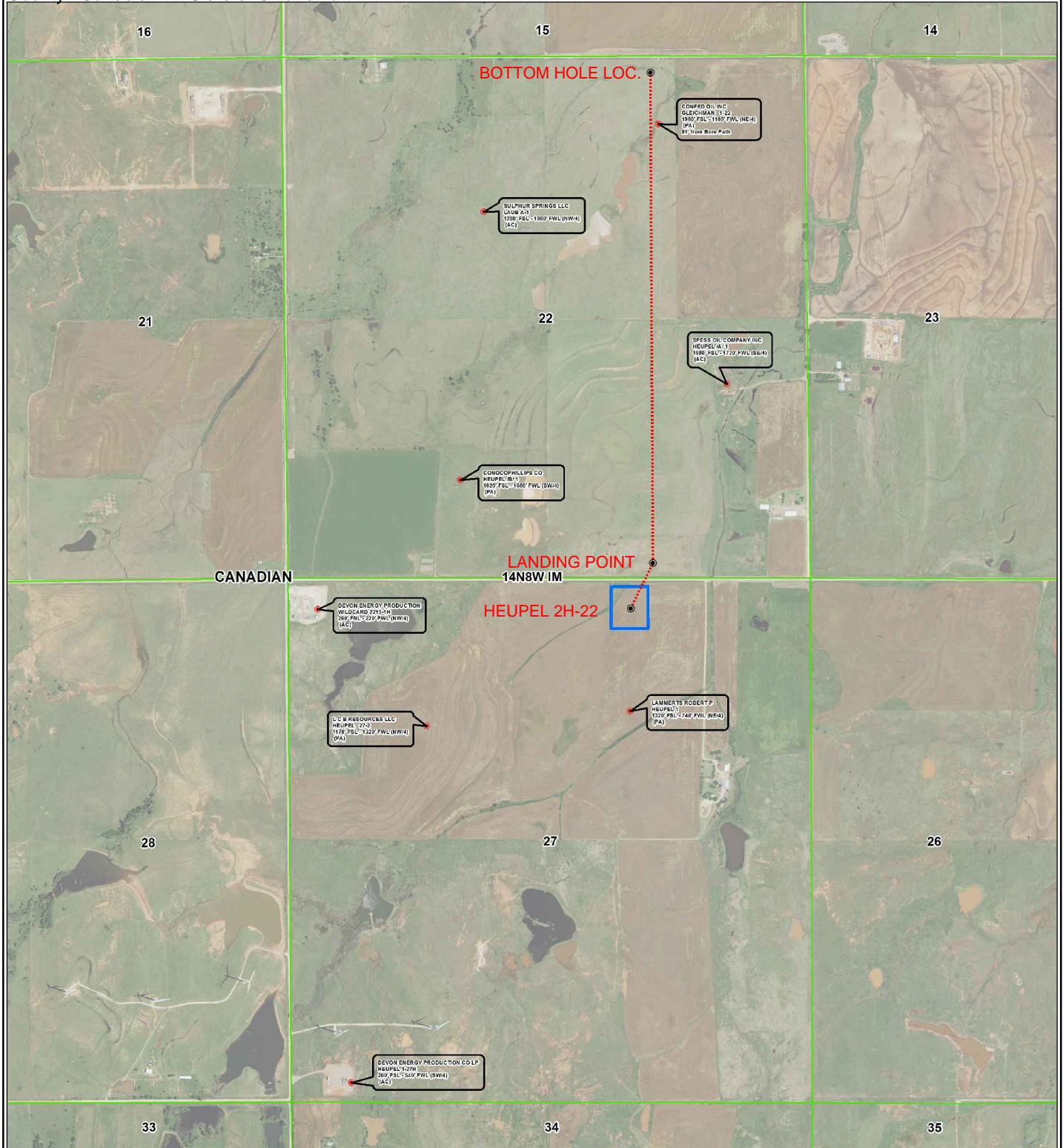
Sec. 22 Twp. 14N Rng. 8W I.M.

County: Canadian State of Oklahoma

- SHL, LP, & BHL
- ..... Bore Path
- Pad
- OCC Wells
- Counties
- Township-Range
- Sections



0 750 1,500 Feet







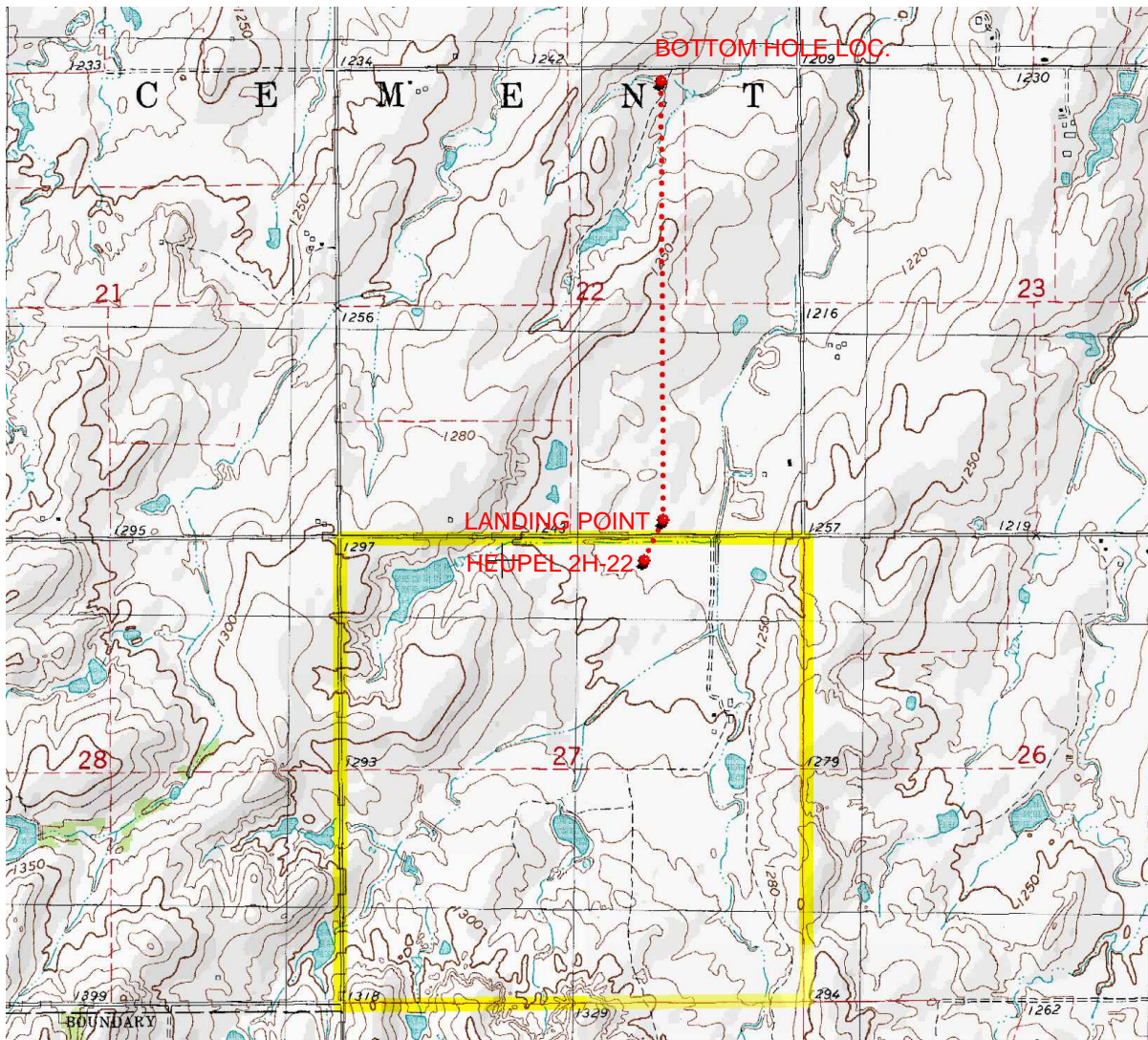
# Topographic Vicinity Map

Operator: CITIZEN ENERGY, LLC  
Lease Name and No.: HEUPEL 2H-22  
Surface Hole Location: 295' FNL - 1795' FEL  
Sec. 27 Twp. 14N Rng. 8W I.M.  
Landing Point: 165' FSL - 1570' FEL  
Bottom Hole Location: 165' FNL - 1570' FEL  
Sec. 22 Twp. 14N Rng. 8W I.M.  
County: Canadian State of Oklahoma



Scale 1" = 2000'  
Contour Interval: 10'

Ground Elevation at Surface Hole Location: 1239'



Provided by:  
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Ph. 918-465-5711 Fax 918-465-5030

Certificate of Authorization No. 5348  
Expires June 30, 2020

Date Staked: 07/29/19

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.

The map displays a grid of sections within townships 14N, 15N, and 16N, and ranges 8W, 9W, and 10W. Key features include:

- Section Numbers:** Sections are numbered 1 through 36, with some sections (e.g., 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36) containing smaller numbers indicating sub-sections.
- Roads:** Major roads shown include N Airport Rd, N Reformatory Rd, N Country Club Rd, N Brandley Rd, N Chiles Rd, N2800 Rd, N2810 Rd, N2820 Rd, E0890 Rd, E0910 Rd, E0920 Rd, and Edmond Rd NW.
- Geographic Features:** The map shows topographic contours, water bodies (e.g., Lake Okarche, Lake Okarche Reservoir), and the location of Okarche, Oklahoma.
- Survey Boundary:** A red line indicates a survey boundary, running horizontally across the top of the map and vertically down the center.
- Highlighted Area:** A green box highlights a specific area in the southwest corner of the map, labeled "HEUPEL 2H-22".