

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

API NUMBER: 017 25577

Approval Date: 12/27/2019

Expiration Date: 06/27/2021

Horizontal Hole Oil & Gas

PERMIT TO DRILL

WELL LOCATION: Sec: 12 Twp: 12N Rge: 9W

County: CANADIAN

SPOT LOCATION: ☐ NW ☐ SE ☐ SE ☐ SW

FEET FROM QUARTER: FROM SOUTH FROM WEST

SECTION LINES: 335 2085

Lease Name: CALDWELL

Well No: 1H-12-1

Well will be 335 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

CALDWELL & SONS DRILLING INC
3 ALTAMIRA
BORGER TX 79007

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

Name	Depth	Name	Depth
1 WOODFORD	11600	6	
2		7	
3		8	
4		9	
5		10	

Spacing Orders: No Spacing

Location Exception Orders:

Increased Density Orders:

Pending CD Numbers: 201905396

Special Orders:

Total Depth: 22134

Ground Elevation: 1531

Surface Casing: 1000

Depth to base of Treatable Water-Bearing FM: 320

Deep surface casing has been approved

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: MARLOW

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

PERMIT NO: 19-37140

H. SEE MEMO

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

The duration of this permit is 18 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: MARLOW

HORIZONTAL HOLE 1

Sec 01 Twp 12N Rge 9W County CANADIAN

Spot Location of End Point: N2 NW NE NW

Feet From: NORTH 1/4 Section Line: 165

Feet From: WEST 1/4 Section Line: 1650

Depth of Deviation: 11174

Radius of Turn: 477

Direction: 359

Total Length: 10211

Measured Total Depth: 22134

True Vertical Depth: 11650

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

Notes:

Category

Description

DEEP SURFACE CASING

12/9/2019 - 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

12/9/2019 - 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: 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

12/9/2019 - G71 - PITS 1 & 2 - CLOSED SYSTEM=STEEL PITS PER OPERATOR REQUEST, PIT 2 - OBM RETURNED TO VENDOR, CUTTINGS PERMITTED PER DISTRICT

PENDING CD - 201905396

12/27/2019 - GB6 - (1280) 1 & 12 -12N-9W
EST MSSP, WDFD
POE TO BHL (WDFD) NCT 165' FSB, NCT 165' FNB, NCT 300' FEB, NCT 300' FWB
POE TO BHL (MSSP) NCT 660' FB
(COEXIST SP. ORDER # 157926 MISS, SP. ORDER # 585992** WDFD, SP. ORDER # 181213 CSTR, MISS, WDFD)
REC 12/02/2019 (JOHNSON)

** S/B 585992/588241

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017 25577 CALDWELL 1H-12-1



Well Location Plat

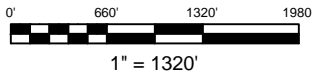
S.H.L. Sec. 12-12N-9W I.M.
B.H.L. Sec. 1-12N-9W I.M.

Operator: CITIZEN ENERGY, LLC
Lease Name and No.: CALDWELL 1H-12-1
Footage: 335' FSL - 2085' FWL Gr. Elevation: 1531'
Section: 12 Township: 12N Range: 9W I.M.
County: Canadian State of Oklahoma
Terrain at Loc.: Location fell in a cultivated field.

API 017-25577



All bearings shown
are grid bearings.



GPS DATUM
NAD 83
NAD 27
OK NORTH ZONE

Surface Hole Loc.:
Lat: 35°31'23.73"N
Lon: 98°06'25.80"W
Lat: 35.52325790
Lon: -98.10716708
X: 1936609
Y: 190494

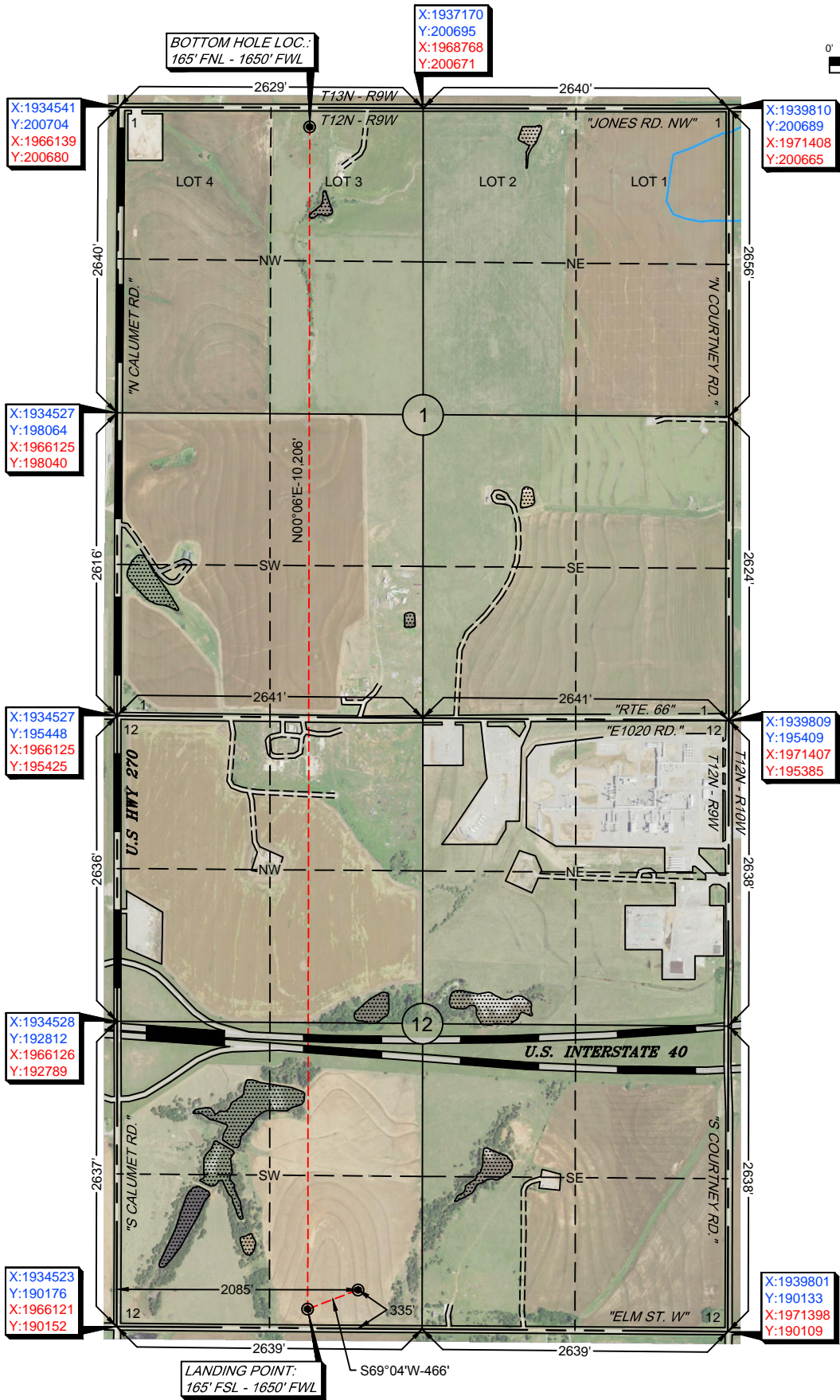
Surface Hole Loc.:
Lat: 35°31'23.54"N
Lon: 98°06'24.61"W
Lat: 35.52320651
Lon: -98.10683554
X: 1968207
Y: 190470

Landing Point:
Lat: 35°31'22.08"N
Lon: 98°06'31.06"W
Lat: 35.52279935
Lon: -98.10862916
X: 1936173
Y: 190327

Landing Point:
Lat: 35°31'21.89"N
Lon: 98°06'29.87"W
Lat: 35.52274794
Lon: -98.10829759
X: 1967771
Y: 190303

Bottom Hole Loc.:
Lat: 35°33'03.01"N
Lon: 98°06'31.00"W
Lat: 35.55083669
Lon: -98.10861038
X: 1936190
Y: 200533

Bottom Hole Loc.:
Lat: 35°33'02.83"N
Lon: 98°06'29.80"W
Lat: 35.55078607
Lon: -98.10827835
X: 1967788
Y: 200509



-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

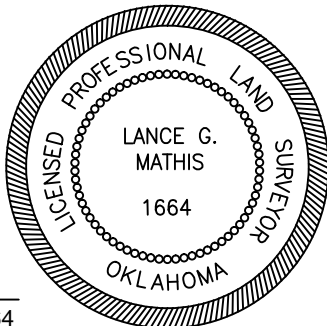
Invoice #8941-A
Date Staked: 11/26/19 By: B.A.
Date Drawn: 12/02/19 By: K.M.
Rev. LP/BHL: 12/06/19 By: K.M.

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.

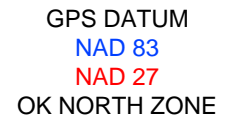
LANCE G. MATHIS

12/06/19
OK LPLS 1664

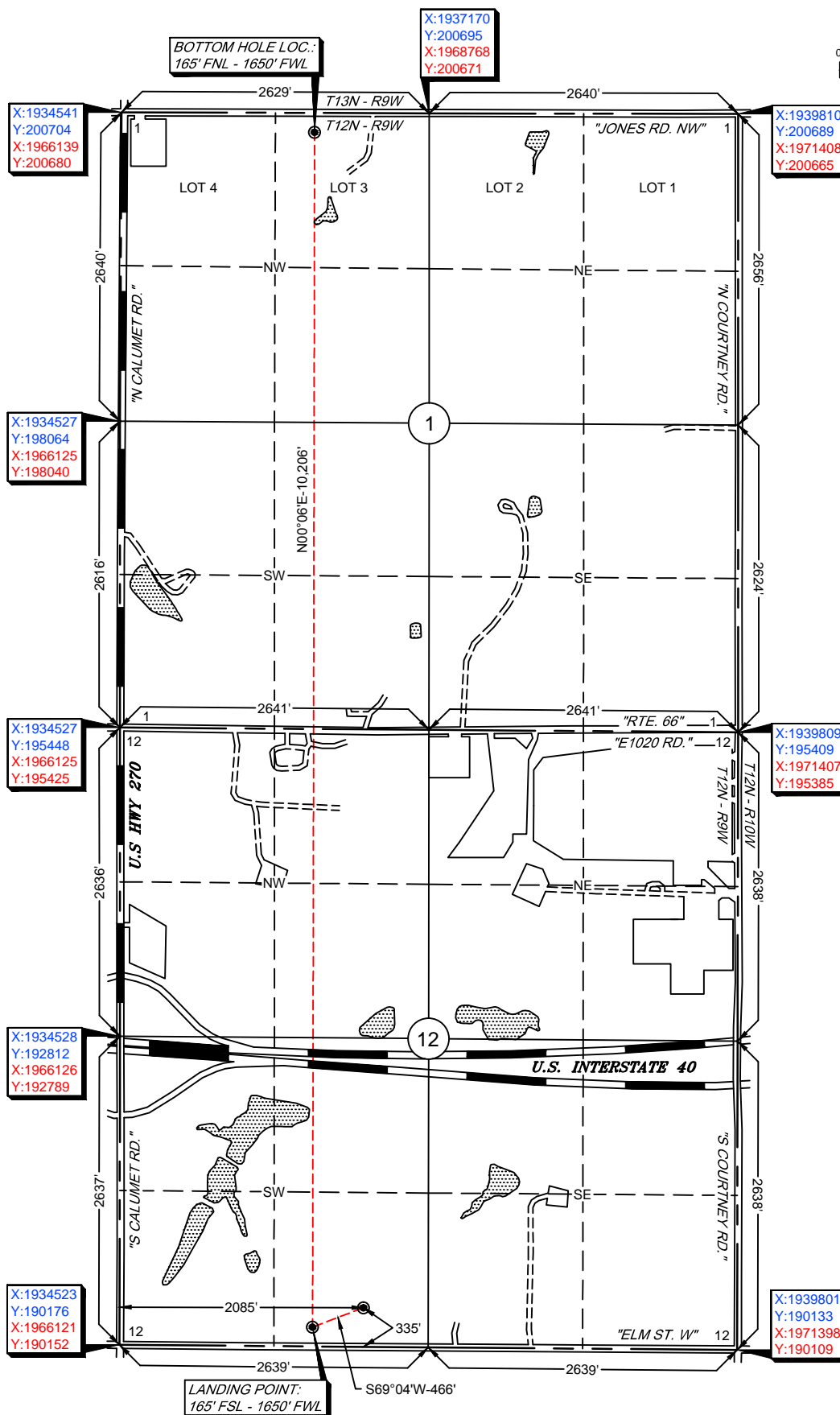




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Lease Name and No.: CALDWELL 1H-12-1
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County: Canadian State of Oklahoma
Terrain at Loc.: Location fell in a cultivated field.

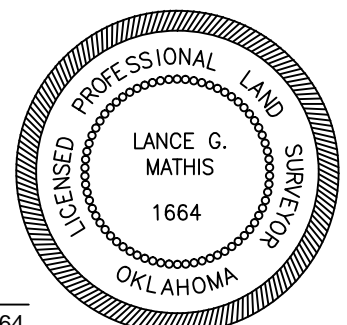


Bottom Hole Loc.:
Lat: 35°33'02.83"N
Lon: 98°06'29.80"W
Lat: 35.55078607
Lon: -98.10827835
X: 1967788
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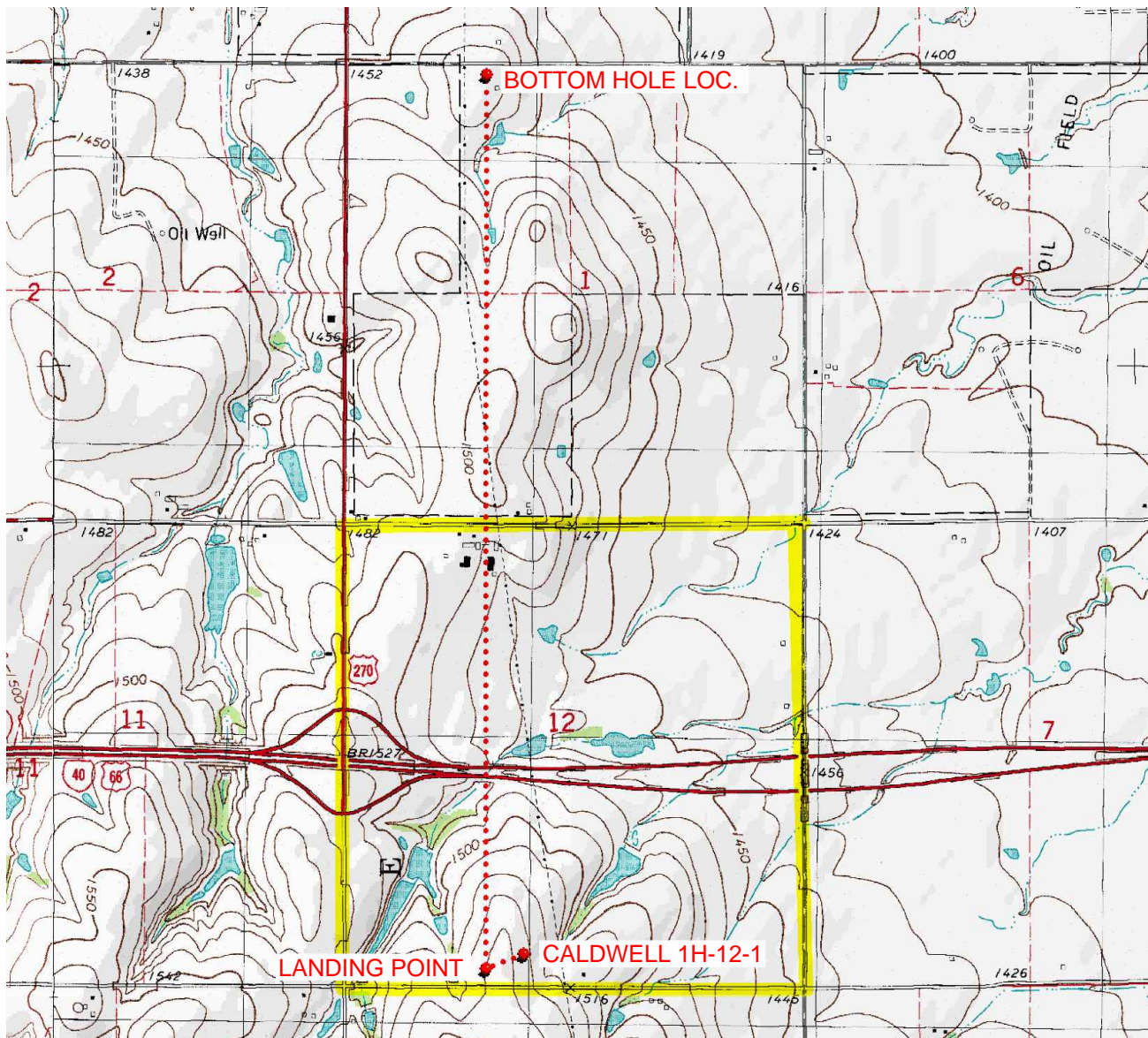
Topographic Vicinity Map

Operator: CITIZEN ENERGY, LLC
Lease Name and No.: CALDWELL 1H-12-1
Surface Hole Location: 335' FSL - 2085' FWL
Landing Point: 165' FSL - 1650' FWL
Sec. 12 Twp. 12N Rng. 9W I.M.
Bottom Hole Location: 165' FNL - 1650' FWL
Sec. 1 Twp. 12N Rng. 9W I.M.
County: Canadian State of Oklahoma



Scale 1" = 2000'
Contour Interval: 10'

Ground Elevation at Surface Hole Location: 1531'



Provided by:
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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: 11/26/19

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 #: 8941-A

Operator: CITIZEN ENERGY, LLC

Lease Name and No.: CALDWELL 1H-12-1

Accessibility: From the North.

Directions: From the junction of "Main St" & US HWY 270 in the town of Calumet, OK, go 5.5 miles South on US HWY 270, then go 0.4 miles East on "Elm St W" to the Southwest Quarter of Section 12-12N-9W on the North side of the road.



1 inch = 0.75 mile

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