API NUMBER: 017 25578

Oil & Gas

CITIZEN ENERGY III LLC

Horizontal Hole

Operator

Spacing Orders:

Name:

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

Approval Date: 12/27/2019
Expiration Date: 06/27/2021

PERMIT TO DRILL

Telephone: 9189494680

WELL LOCATION:	Sec:	12	Twp:	12N	Rge:	9W	County	/: CAN	ADIAN		
SPOT LOCATION:	SW	SE		SE	SW		FEET FROM QUARTER: SECTION LINES:	FROM	SOUTH	FROM	WEST
Lease Name: CALDWELL						We	ell No:	305 2H-12-1		2085	

OTC/OCC Number: 24120 0

Well will be 305 feet from nearest unit or lease boundary.

Depth

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

CALDWELL & SONS DRILLING INC.
3 ALTAMIRA

BORGER TX 79007

Increased Density Orders:

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

 Name
 Depth
 Name

 1
 MISSISSIPPIAN
 11300
 6

 2
 7

3 8 4 9 5 10

Pending CD Numbers: 201905396 Special Orders:

Location Exception Orders:

Total Depth: 21334 Ground Elevation: 1532 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 D. One time land application -- (REQUIRES PERMIT)

Chlorides Max: 8000 Average: 5000 H. SEE MEMO

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

No Spacing

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

PERMIT NO: 19-37141

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 NE NE NW
Feet From: NORTH 1/4 Section Line: 165
Feet From: WEST 1/4 Section Line: 2310

Depth of Deviation: 10874 Radius of Turn: 477

Direction: 1

Total Length: 9711

Measured Total Depth: 21334

True Vertical Depth: 11350

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

Notes:

MEMO

Category Description

COMPLETION INTERVAL 12/27/2019 - GB6 - X201905396 MSSP COMPL. INT. TO BE NCT 660' FB PER OPERATOR.

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

12/9/2019 - 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. 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.

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

Well Location Plat Operator: CITIZEN ENERGY, LLC

BOTTOM HOLE LOC

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

Footage: 305' FSL - 2085' FWL Gr. Elevation: 1532' Section: 12 Township: 12N Range: 9W I.M. County: Canadian State of Oklahoma Terrain at Loc.: Location fell in a cultivated field.

Lease Name and No.: CALDWELL 2H-12-1

API 017-25578

All bearings shown are grid bearings.

GPS DATUM
NAD 83
NAD 27
OK NORTH ZONE

= 1320

Surface Hole Loc.: Lat: 35°31'23.43"N Lon: 98°06'25.80"W Lat: 35.52317549 Lon: -98.10716716 X: 1936609 Y: 190464

Surface Hole Loc.: Lat: 35°31'23.25"N Lon: 98°06'24.61"W Lat: 35.52312409 Lon: -98.10683562 X: 1968207 Y: 190440

Landing Point: Lat: 35°31'22.03"N Lon: 98°06'23.08"W Lat: 35.52278651 Lon: -98.10641133 X: 1936833 Y: 190322

Landing Point: Lat: 35°31'21.85"N Lon: 98°06'21.89"W Lat: 35.52273511 Lon: -98.10607982 X: 1968431

Y: 190298

Y: 200531

Bottom Hole Loc.: Lat: 35°33'03.00"N Lon: 98°06'23.01"W Lat: 35.55083261 Lon: -98.10639175 X: 1936850

Bottom Hole Loc.: Lat: 35°33'02.82"N Lon: 98°06'21.82"W Lat: 35.55078199 Lon: -98.10605980 X: 1968448 Y: 200507

2629'-JONES RD. NW LOT 2 LOT 1 "N COURTNEY RD. N00°06'E-10,209 9 :1971407 T12N-INTERSTATE 40 'S COURTNE RD. "ELM ST. W" I ANDING POINT. S57°45'F-266'

-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-B

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.

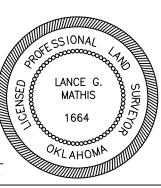
Certification:

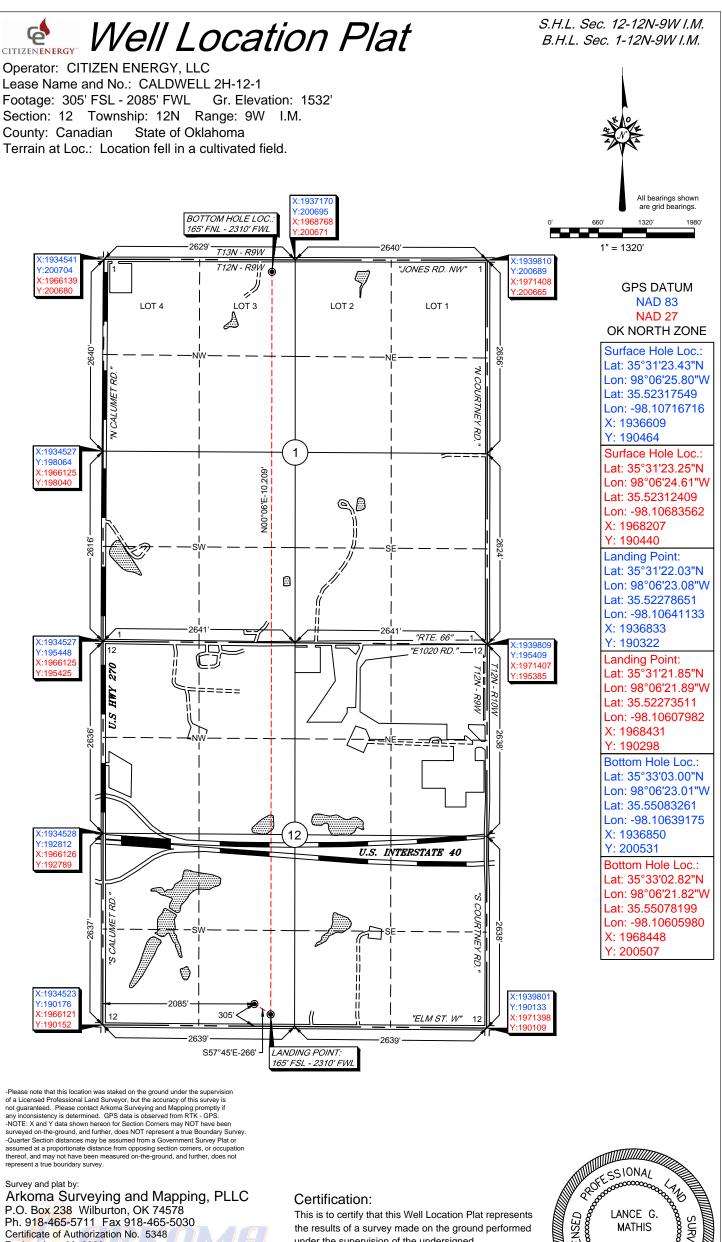
This is to certify that this Well Location Plat represents the results of a survey made on the ground performed under the supervision of the undersigned.



12/06/19

OK LPLS 1664





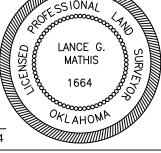
Expires June 30, 2020 Invoice #8941-B

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

the results of a survey made on the ground performed under the supervision of the undersigned.



12/06/19 OK LPLS 1664





Topographic Vicinity Map

Operator: CITIZEN ENERGY, LLC

Lease Name and No.: CALDWELL 2H-12-1 Surface Hole Location: 305' FSL - 2085' FWL

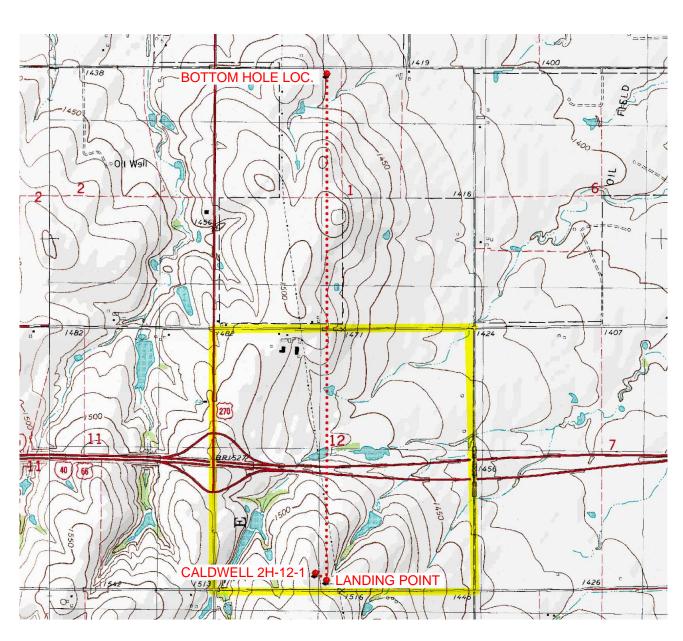
Landing Point: 165' FSL - 2310' FWL Sec. 12 Twp. 12N Rng. 9W I.M. Bottom Hole Location: 165' FNL - 2310' FWL

Sec. 1 Twp. 12N Rng. 9W I.M. County: Canadian State of Oklahoma

Ground Elevation at Surface Hole Location: 1532'



Scale 1" = 2000' Contour Interval: 10'



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: 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.

