

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

API NUMBER: 039 22534

Approval Date: 04/17/2018

Expiration Date: 10/17/2018

Horizontal Hole Oil & Gas

PERMIT TO DRILL

WELL LOCATION: Sec: 04 Twp: 15N Rge: 16W County: CUSTER
SPOT LOCATION: ☐ SW ☐ SW ☐ SW ☒ NE FEET FROM QUARTER: FROM NORTH FROM EAST
SECTION LINES: 2420 2430

Lease Name: MANNERING Well No: 2H-4-33 Well will be 2420 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

TINA MANNERING
22995 E 840 ROAD
CUSTER CITY OK 73096

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

	Name	Depth	Name	Depth
1	MISSISSIPPIAN	13550	6	
2	WOODFORD	14550	7	
3			8	
4			9	
5			10	

Spacing Orders: No Spacing

Location Exception Orders:

Increased Density Orders:

Pending CD Numbers: 201800771
201800774
201800778
201800779

Special Orders:

Total Depth: 22350 Ground Elevation: 1834 Surface Casing: 1500 Depth to base of Treatable Water-Bearing FM: 380

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: 18-34013
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 33 Twp 16N Rge 16W County DEWEY

Spot Location of End Point: NW NW NW NE

Feet From: NORTH 1/4 Section Line: 165

Feet From: EAST 1/4 Section Line: 2430

Depth of Deviation: 14076

Radius of Turn: 477

Direction: 360

Total Length: 7525

Measured Total Depth: 22350

True Vertical Depth: 14600

End Point Location from Lease,
Unit, or Property Line: 0

Additional Surface Owner	Address	City, State, Zip
TINA MANNERING	22995 E 840 ROAD	CUSTER CITY, OK 73096

Notes:

Category

Description

DEEP SURFACE CASING

4/2/2018 - 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

4/2/2018 - 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: 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

MEMO

4/2/2018 - G71 - PITS 1 & 2 - CLOSED SYSTEM=STEEL PITS PER OPERATOR REQUEST, PIT 2 - OBM RETURNED TO VENDOR, CUTTINGS PERMITTED PER DISTRICT

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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.

039 22534 MANNERING 2H-4-33

Category	Description
PENDING CD - 201800771	<p>4/6/2018 - G58 - (640)(HOR) 4-15N-16W & 33-16N-16W VAC OTHER VAC 152275 MSSLM** EST MSSP, WDFD, OTHER COMPL. INT. NCT 660' FB REC 4/2/2018 (JOHNSON)</p> <p>**SHOULD ALSO VACATE/COEXIST CSTR FROM THIS ORDER; COEXISTED CSTR AT HEARING PER ATTORNEY FOR OP</p>
PENDING CD - 201800774	<p>4/6/2018 - G58 - (I.O.) 4-15N-16W & 33-16N-16W EST MULTIUNIT HORIZONTAL WELL X201800771 MSSP, WDFD (4-15N-16W & 33-16N-16W) ** 33% 4-15N-16W 67% 33-16N-16W NO OP. NAMED REC 4/2/2018 (JOHNSON)</p> <p>**TARGET FORMATION NOT SPECIFIED; SPECIFIED WDFD AT HEARING PER ATTORNEY FOR OP.</p>
PENDING CD - 201800778	<p>4/6/2018 - G58 - (I.O.) 4-15N-16W & 33-16N-16W X201800771 MSSP, WDFD COMPL. INT. (4-15N-16W) NCT 2640' FNL, NCT 0' FNL, NCT 330' FEL COMPL. INT. (33-16N-16W) NCT 165' FNL, NCT 0' FSL, NCT 330' FEL NO OP. NAMED REC 4/2/2018 (JOHNSON)</p>
SURFACE CASING	<p>4/2/2018 - G71 - MIN. 500' PER ORDERS 39839/42589</p>



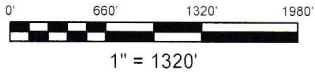
Well Location Plat

S.H.L. Sec. 4-15N-16W I.M.
B.H.L. Sec. 33-16N-16W I.M.

Operator: CITIZEN ENERGY, LLC
Lease Name and No.: MANNERING 2H-4-33 039-22534
Footage: 2420' FNL - 2430' FEL Gr. Elevation: 1834'
Section: 4 Township: 15N Range: 16W I.M.
County: Custer State of Oklahoma
Terrain at Loc.: Location fell in an open, flat, cultivated field with the Southwest corner of pad 15' North and 15' East of existing fence corner.

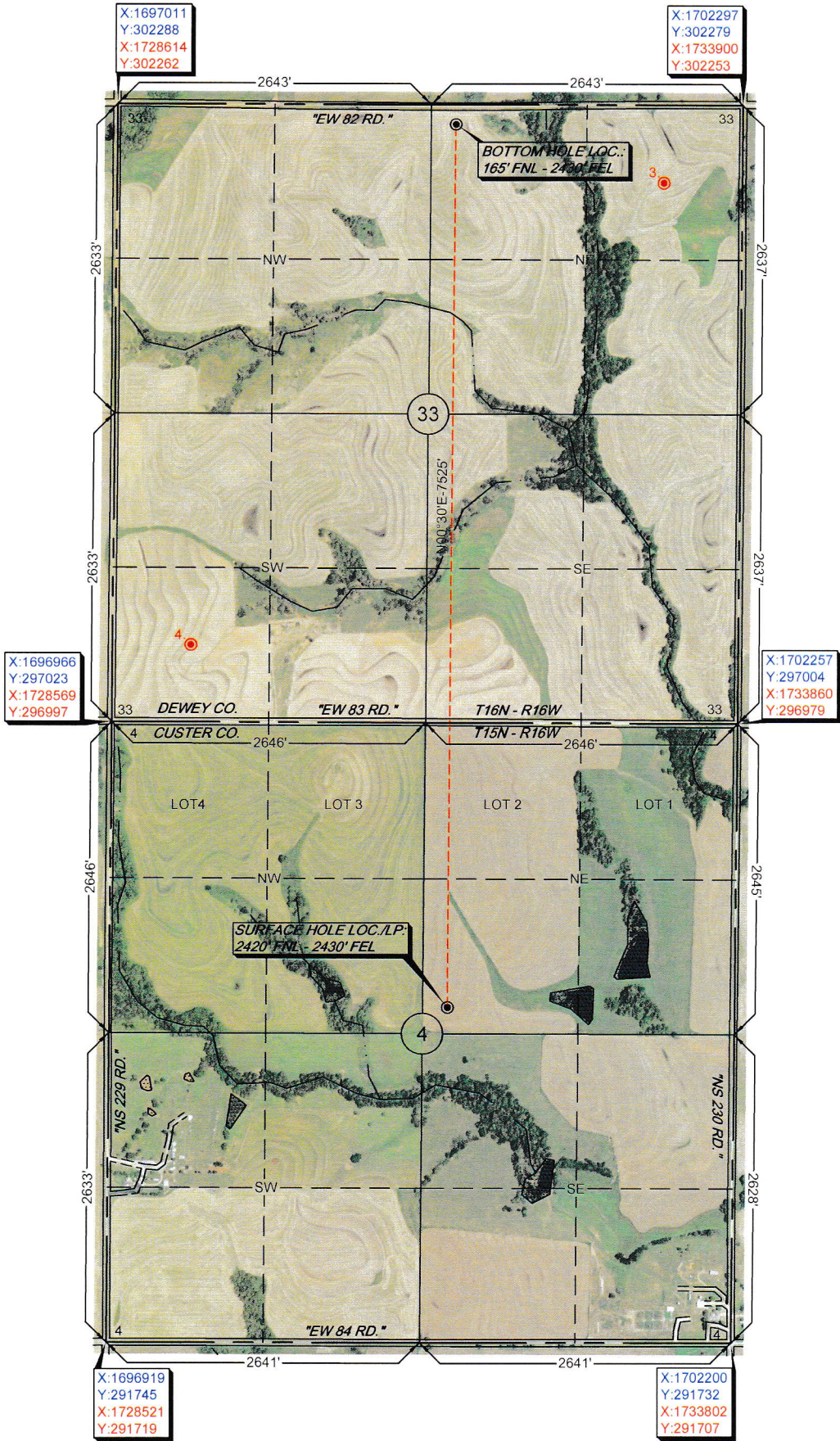


All bearings shown
are grid bearings.



GPS DATUM
NAD 83
NAD 27
OK NORTH ZONE

Surface Hole Loc.:
Lat: 35°48'21.02"N
Lon: 98°54'22.22"W
Lat: 35.80583868
Lon: -98.90617284
X: 1699801
Y: 294593
Surface Hole Loc.:
Lat: 35°48'20.85"N
Lon: 98°54'20.89"W
Lat: 35.80579195
Lon: -98.90580408
X: 1731404
Y: 294567
Landing Point:
Lat: 35°48'21.02"N
Lon: 98°54'22.22"W
Lat: 35.80583868
Lon: -98.90617284
X: 1699801
Y: 294593
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Lat: 35.80579195
Lon: -98.90580408
X: 1731404
Y: 294567
Bottom Hole Loc.:
Lat: 35°49'35.44"N
Lon: 98°54'22.29"W
Lat: 35.82651196
Lon: -98.90619167
X: 1699866
Y: 302118
Bottom Hole Loc.:
Lat: 35°49'35.28"N
Lon: 98°54'20.96"W
Lat: 35.82646564
Lon: -98.90582252
X: 1731468
Y: 302092



-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.

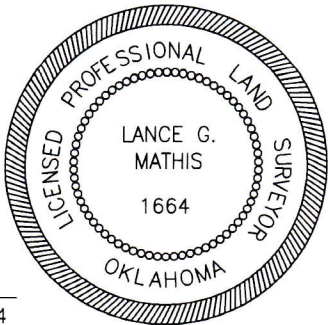
Survey and plat by:
Arkoma Surveying and Mapping, PLLC
P.O. Box 238 Wilburton, OK 74578
Ph. 918-465-5711 Fax 918-465-5030
Certificate of Authorization No. 5348
Expires June 30, 2018

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

02/01/18

OK LPLS 1664



Invoice #7600-B
Date Staked: 01/22/18 By: C.K.
Date Drawn: 01/30/18 By: P.B.



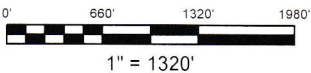
Well Location Plat

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B.H.L. Sec. 33-16N-16W I.M.

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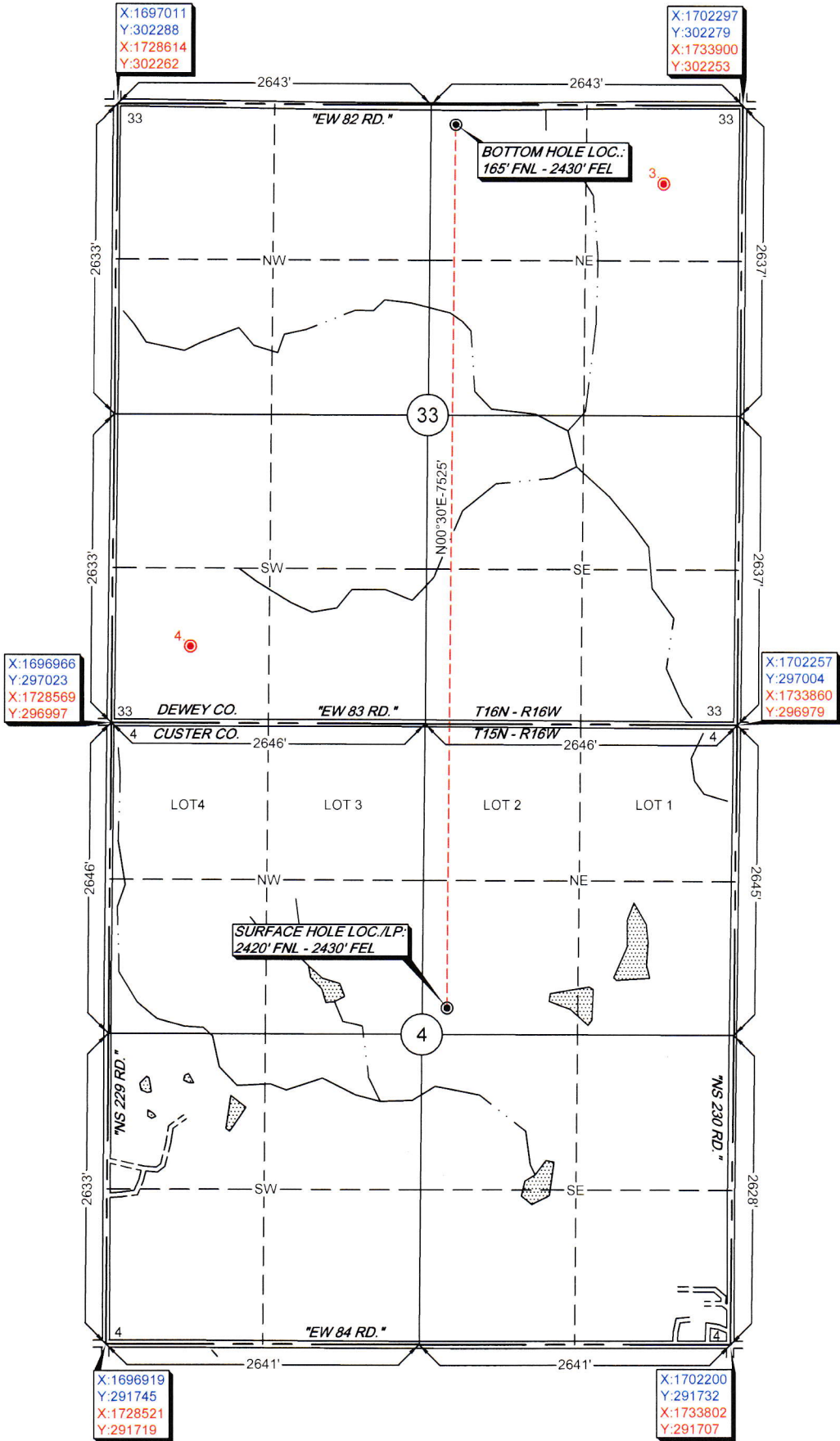
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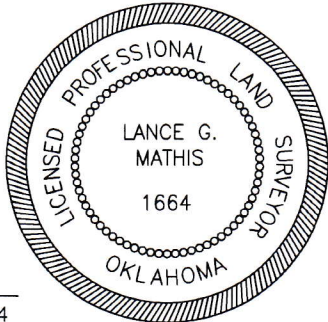
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Ph. 918-465-5711 Fax 918-465-5030
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02/01/18

OK LPLS 1664



Invoice #7600-B
Date Staked: 01/22/18 By: C.K.
Date Drawn: 01/30/18 By: P.B.



Anti-Collision Info

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B.H.L. Sec. 33-16N-16W I.M.

Operator: CITIZEN ENERGY, LLC
Lease Name and No.: MANNERING 2H-4-33
Footage: 2420' FNL - 2430' FEL Gr. Elevation: 1834'
Landing Point: 2420' FNL - 2430' FEL
Section: 4 Township: 15N Range: 16W I.M.
County: Custer State of Oklahoma
Bottom Hole Location: 165' FNL - 2430' FEL
Section: 33 Township: 16N Range: 16W I.M.
County: Dewey State of Oklahoma

SECTION 33-16N-16W

3. EXXON MOBIL OIL CORP.
BROWNIE-MOHR UNIT 1
1980' FSL - 1980' FWL (NE/4)
OCC STATUS: PA

4. ORYX ENERGY COMPANY
BROWNIE BROWNE 1
660' FSL - 660' FWL (SW/4)
OCC STATUS: PA

Survey and plat by:

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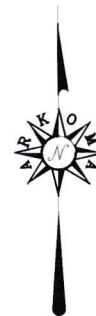
PLEASE NOTE

EXISTING WELL DATA SHOWN HEREON WAS
FURNISHED FROM THE OCC WEBSITE AND WAS NOT
SURVEYED OR VERIFIED ON THE GROUND

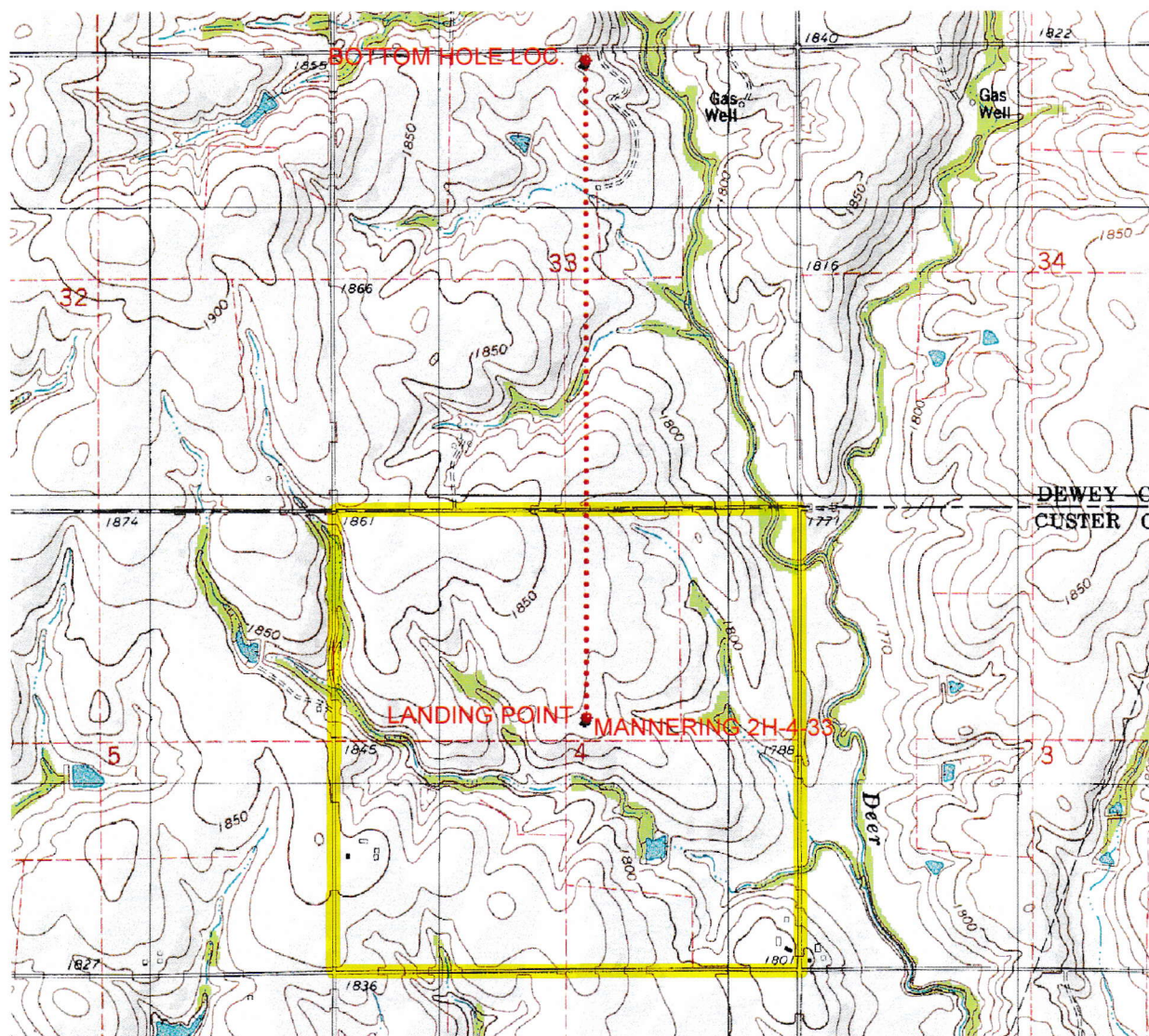


Topographic Vicinity Map

Operator: CITIZEN ENERGY, LLC
Lease Name and No.: MANNERING 2H-4-33
Surface Hole Location: 2420' FNL - 2430' FEL
Landing Point: 2420' FNL - 2430' FEL
Sec. 4 Twp. 15N Rng. 16W I.M.
County: Custer State of Oklahoma
Bottom Hole Location: 165' FNL - 2430' FEL
Sec. 33 Twp. 16N Rng. 16W I.M.
County: Dewey State of Oklahoma
Ground Elevation at Surface Hole Location: 1834'



Scale 1" = 2000'
Contour Interval: 10'



Provided by:

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Certificate of Authorization No. 5348

Expires June 30, 2018

Date Staked: 01/22/18

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 #: 7600-B

Operator: CITIZEN ENERGY, LLC

Lease Name and No.: MANNERING 2H-4-33

Accessibility: From the North.

Directions: From the junction of State HWY 47 & US HWY 183 South of the town of Putnam, OK, go 1.0 mile South on US HWY 183, then go 3.5 miles East on "EW 83 RD." to the Northeast Quarter of Section 4-15N-16W on the South side of the road.

1 inch = 0.75 mile

provided by:
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