API NUMBER: 017 25761

Multi Unit Oil & Gas

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

Approval Date: 01/11/2022
Expiration Date: 07/11/2023

PERMIT TO DRILL

WELL LOCATION: Section: 20 Township: 12N Range: 7W County: CANADIAN

SPOT LOCATION: NW SE SE SE FEET FROM QUARTER: FROM **SOUTH** FROM **EAST**

SECTION LINES: **599** **386**

Lease Name: **TOMAHAWK 1207 20-17** **Well No:** **3MH** **Well will be** **386** **feet from nearest unit or lease boundary.**

Operator Name: **REVOLUTION OPERATING COMPANY LLC** Telephone: 4055345232 OTC/OCC Number: 24513 0

REVOLUTION OPERATING COMPANY LLC
14301 CALIBER DR STE 110
OKLAHOMA CITY, OK 73134-1016

TOMAHAWK DEVELOPMENT IV OKLAHOMA
116 SPINNER DR
BROUSSARD LA 70518

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

	Name	Code	Depth
1	MISSISSIPPIAN	359MSSP	9904

Spacing Orders: 661894
683787
709998

Location Exception Orders: No Exceptions

Increased Density Orders: No Density

Pending CD Numbers: 202102869
202102871
202102872
202102873

Working interest owners' notified: ***

Special Orders: No Special

Total Depth: 19000 Ground Elevation: 1395 **Surface Casing: 1300** Depth to base of Treatable Water-Bearing FM: 380

Deep surface casing has been approved

Under Federal Jurisdiction: No
Fresh Water Supply Well Drilled: No
Surface Water used to Drill: Yes

Approved Method for disposal of Drilling Fluids:

D. One time land application -- (REQUIRES PERMIT) PERMIT NO: 21-37965

H. (Other) SEE MEMO

PIT 1 INFORMATION

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: DOG CREEK

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: DOG CREEK

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.

MULTI UNIT HOLE 1

Section: 17	Township: 12N	Range: 7W	Meridian: IM	Total Length:	8657
County:	CANADIAN			Measured Total Depth:	19000
Spot Location of End Point:	SW	NW	SW	NE	True Vertical Depth: 9904
Feet From:	**NORTH**	1/4 Section Line: 1680		End Point Location from Lease,Unit, or Property Line:	1680
Feet From:	**EAST**	1/4 Section Line: 2480			

NOTES:

Category	Description
DEEP SURFACE CASING	[12/6/2021 - GC2] - 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	[12/6/2021 - GC2] - OCC 165:10-3-10 REQUIRES: 1) NOTICE SHALL BE GIVEN AT LEAST 5 BUSINESS DAYS PRIOR TO COMMENCEMENT OF HYDRAULIC FRACTURING OPERATIONS ON A HORIZONTAL WELL TO OPERATORS PRODUCING WELLS WITHIN 1 MILE OF THE COMPLETION INTERVAL OF THE SUBJECT WELL. THE NOTICE TO SUCH OPERATORS SHALL CONTAIN THE INFORMATION IN FORM 6000NOO. IF THE HYDRAULIC FRACTURING OPERATIONS SCHEDULE CHANGES AFTER NOTICE HAS BEEN PROVIDED, RESULTING IN A DELAY OF OPERATIONS OF MORE THAN 5 DAYS FROM THE INITIAL NOTICE, NEW NOTICE IS REQUIRED TO BE GIVEN; 2) NOTICE WILL BE GIVEN TO THE OCC CENTRAL OFFICE AND LOCAL DISTRICT OFFICES AT LEAST 48 HOURS PRIOR TO COMMENCEMENT OF HYDRAULIC FRACTURING OPERATIONS. FORM 6000NHF SHALL BE USED AND IS FOUND AT THIS LINK: OCCEWEB.COM/OG/OGFORMS.HTML; AND, 3) THE CHEMICAL DISCLOSURE OF HYDRAULIC FRACTURING INGREDIENTS FOR ALL WELLS IS TO BE REPORTED TO FRACFOCUS WITHIN 60 DAYS AFTER THE CONCLUSION OF HYDRAULIC FRACTURING OPERATIONS, FOUND AT FRACFOCUS.ORG
MEMO	[12/6/2021 - GC2] - CLOSED SYSTEM=STEEL PITS PER OPERATOR REQUEST, OBM RETURNED TO VENDOR, CUTTINGS PERMITTED PER DISTRICT
PENDING CD - 202102869	[1/11/2022 - G56] - (I.O.) 17 & 20-12N-7W EST MULTIUNIT HORIZONTAL WELL X661894 MSSP 20-12N-7W X683787/709998 MSSP 17-12N-7W 67% 20-12N-7W 33% 17-12N-7W NO OP NAMED REC 1/10/2022 (HUBER)
PENDING CD - 202102871	[1/11/2022 - G56] - (I.O.) 17 & 20-12N-7W X661894 MSSP 20-12N-7W X683787/709998 MSSP 17-12N-7W COMPL INT (20-12N-7W) NCT 165’ FSL, NCT 0’ FNL, NCT 1320’ FEL OR FWL COMPL INT (17-12N-7W) NCT 0’ FSL, NCT 660’ FNL, NCT 1320’ FEL OR FWL NO OP NAMED REC 1/10/2022 (HUBER)
PENDING CD - 202102872	[1/11/2022 - G56] - 17-12N-7W X683787/709998 MSSP 2 WELLS NO OP NAMED REC 1/10/2022 (HUBER)
PENDING CD - 202102873	[1/11/2022 - G56] - 20-12N-7W X661894 MSSP 2 WELLS NO OP NAMED REC 1/10/2022 (HUBER)
SPACING - 661894	[1/11/2022 - G56] - (640)(HOR) 20-12N-7W EST MSSP, OTHERS COMPL INT NLT 660’ FB (COEXIST WITH SP # 147489 MSSP)
SPACING - 683787	[1/11/2022 - G56] - (640)(HOR) 17-12N-7W EXT 661894 MSSP, OTHERS COMPL INT NLT 660’ FB (COEXIST WITH SP # 146122 MSSP, # 147489 MSSP)
SPACING - 709998	[1/11/2022 - G56] - (640)(HOR) 17-12N-7W CONFIRM 683787 MSSP, OTHERS AS TO RESPONDENTS

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WELL LOCATION

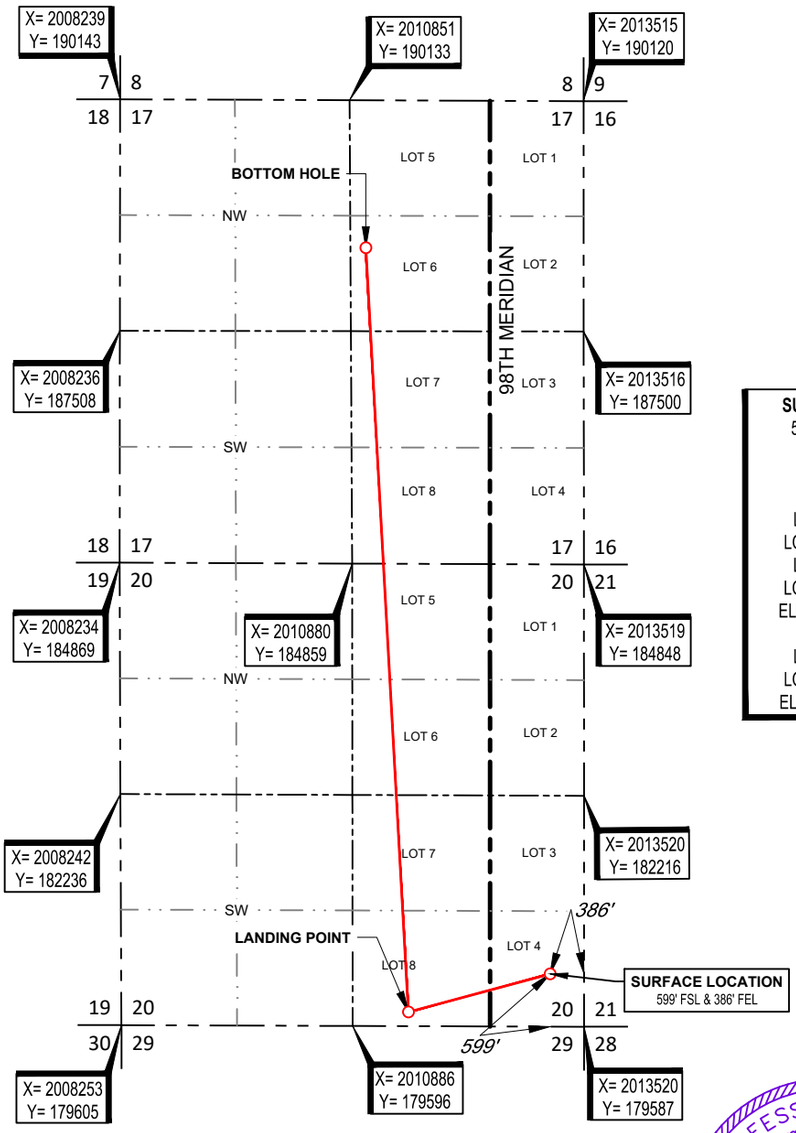
TOMAHAWK 1207 20-17 3MH
REVOLUTION RESOURCES
SECTION 20, TOWNSHIP 12N, RANGE 7W, I.M.
CANADIAN COUNTY, OKLAHOMA

LEGEND

- SECTION LINE
- 98TH MERIDIAN LINE
- QUARTER SECTION LINE
- 16TH LINE
- PROPOSED WELL BORE

GRID
NAD-27
OK NORTH
US FEET

SCALE: 1" = 2000'
0' 1000' 2000'



BOTTOM HOLE
1680' FNL & 2480' FEL-SEC. 17
NAD-27
X= 2011036
Y= 188452
LAT.: 35°31'03.7" N
LONG.: 97°57'46.5" W
LAT.: 35.517705° N
LONG.: 97.962919° W

LANDING POINT
160' FSL & 2000' FEL
NAD-27
X= 2011520
Y= 179754
LAT.: 35°29'37.7" N
LONG.: 97°57'40.7" W
LAT.: 35.493809° N
LONG.: 97.961304° W

SURFACE LOCATION
599' FSL & 386' FEL
NAD-27
X= 2013134
Y= 180188
LAT.: 35°29'42.0" N
LONG.: 97°57'21.2" W
LAT.: 35.494999° N
LONG.: 97.955880° W
ELEV.: 1394' (NGVD29)
NAD-83
LAT.: 35°29'42.2" N
LONG.: 97°57'22.3" W
ELEV.: 1395' (NAVD88)

LICENSED PROFESSIONAL LAND SURVEYOR
T. WAYNE FISCH
1378
12-02-21
OKLAHOMA

SURVEYOR'S CERTIFICATE:
I, T. WAYNE FISCH, AN OKLAHOMA LICENSED LAND SURVEYOR AND AN AUTHORIZED AGENT OF TOPOGRAPHIC LAND SURVEYORS, DO HEREBY CERTIFY TO THE INFORMATION SHOWN HEREIN.

T Wayne Fisch
T. Wayne Fisch, P.L.S. No. 1378
Authorized Agent of Topographic Land Surveyors

TOPOGRAPHIC
LOYALTY INNOVATION LEGACY
13800 WIRELESS WAY • OKLAHOMA CITY, OKLAHOMA 73134
TELEPHONE: (405) 843-4847 OR (800) 654-3219
CERTIFICATE OF AUTHORIZATION NO. 1292 LS
WWW.TOPOGRAPHIC.COM

LEASE NAME & WELL NO. TOMAHAWK 1207 20-17 3MH
SECTION 20 TWP 12N RGE 7W MERIDIAN I.M.
COUNTY CANADIAN STATE OKLAHOMA
DESCRIPTION 599' FSL & 386' FEL

TOMAHAWK 1207 20-17 3MH	REVISION: INT	DATE
	JS	12/01/2021
DATE: 11/16/2021		
FILE: LO_TOMAHAWK_1207_20-17_3MH_REV1		
DRAWN BY: JM		
SHEET : 1 OF 2		

NOTES:
1. ORIGINAL DOCUMENT SIZE: 8.5" X 14"
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4. LANDING POINT, BOTTOM HOLE, AND DRILL PATH INFORMATION PROVIDED BY OPERATOR AS SHOWN AND ARE NOT SURVEYED LOCATIONS.
5. THE INFORMATION SHOWN HEREIN IS FOR CONSTRUCTION PURPOSES ONLY

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TOMAHAWK 1207 20-17 3MH
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SECTION 20, TOWNSHIP 12N, RANGE 7W, I.M.
CANADIAN COUNTY, OKLAHOMA

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OK NORTH
US FEET

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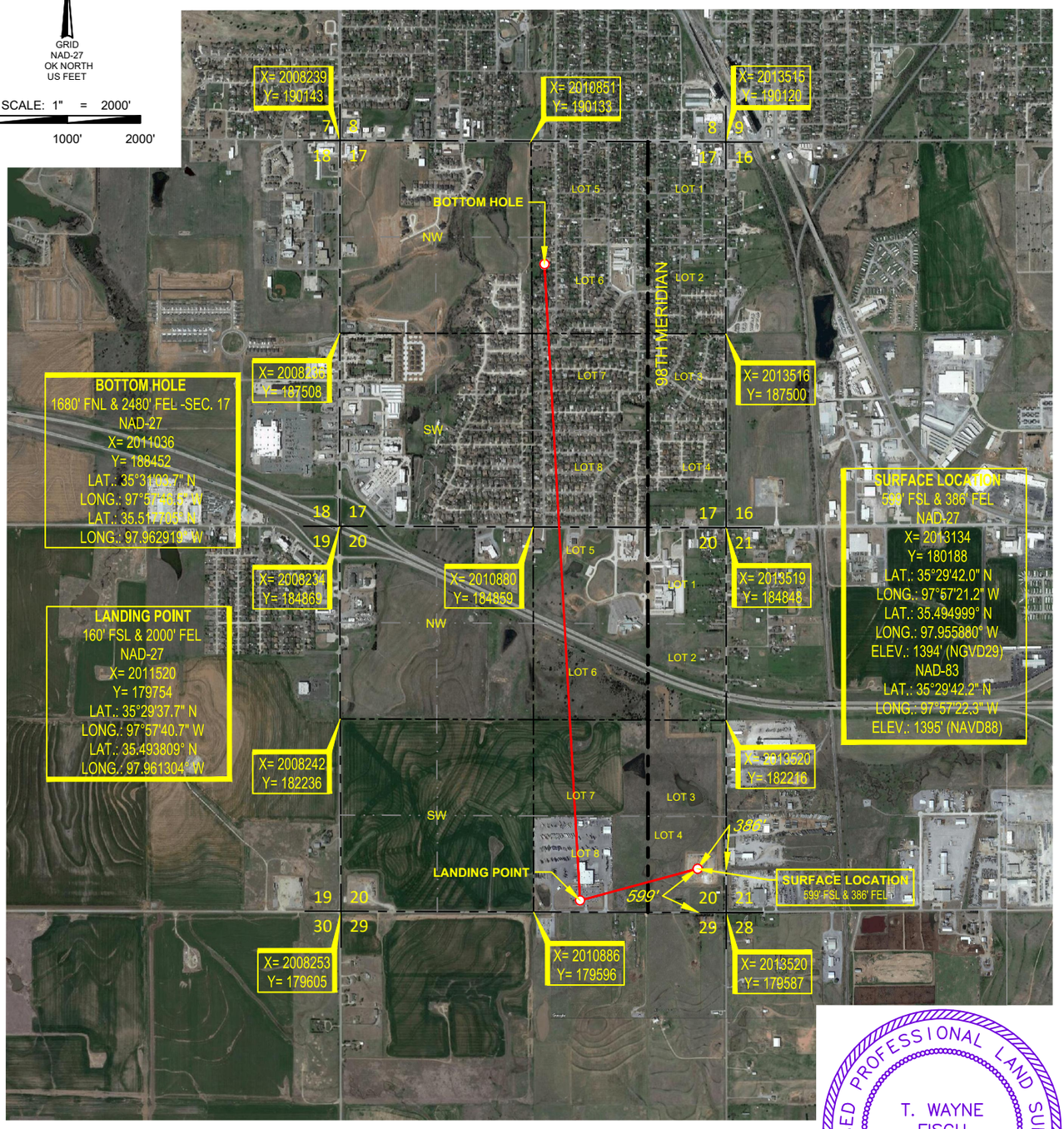
0' 1000' 2000'



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T Wayne Fisch

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COUNTY CANADIAN STATE OKLAHOMA
DESCRIPTION 599' FSL & 386' FEL

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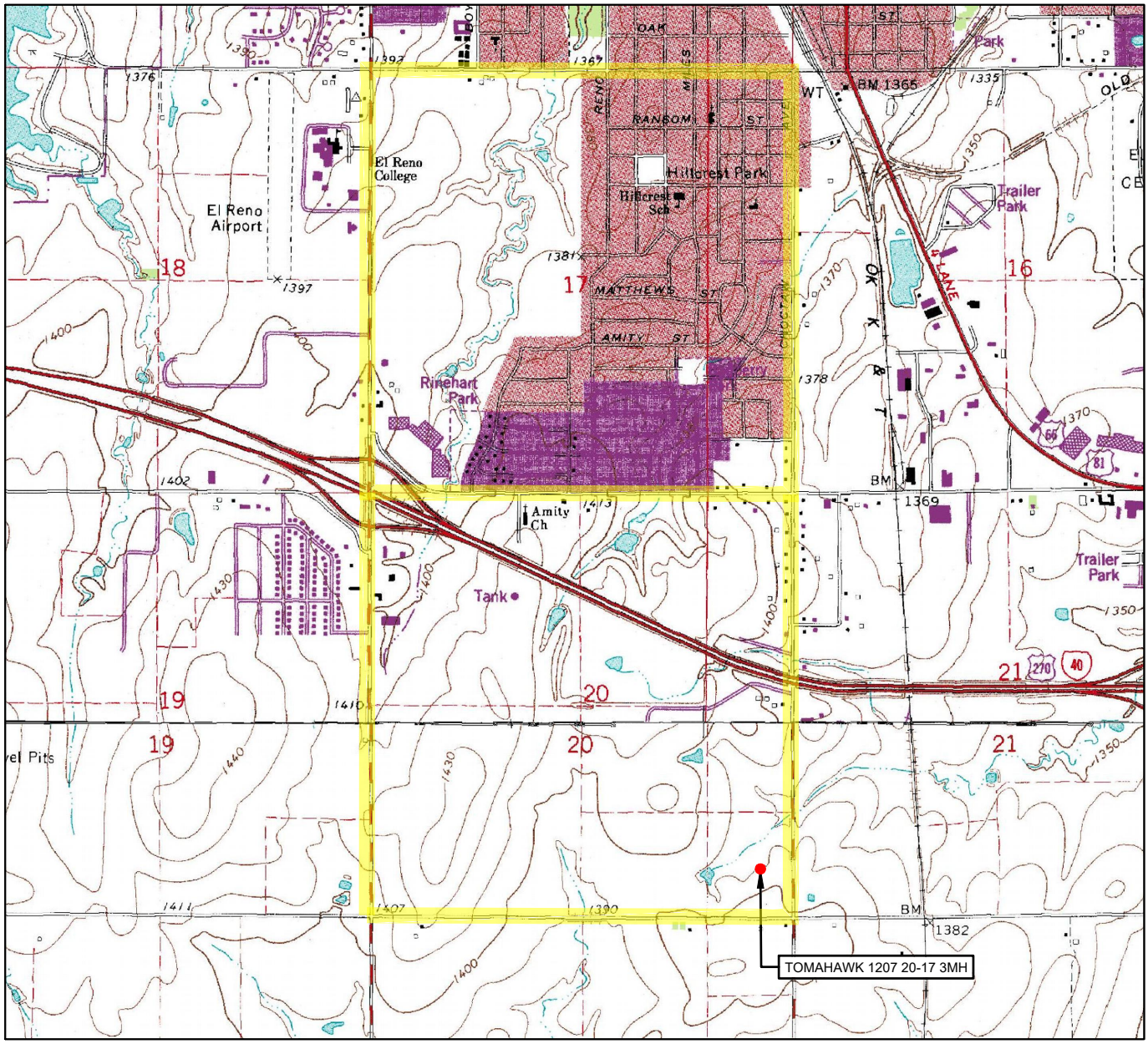
LOCATION & ELEVATION VERIFICATION MAP



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SECTION 20 TWP 12N RGE 7W MERIDIAN I.M.

COUNTY CANADIAN STATE OKLAHOMA

DESCRIPTION 599' FSL & 386' FEL

ELEV.: 1394' (NGVD29)

ELEV.: 1395' (NAVD88)

SCALE: 1" = 2000'

0' 1000' 2000'

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ALL BEARINGS, DISTANCES, AND COORDINATE VALUES CONTAINED HEREON ARE GRID BASED UPON THE OKLAHOMA STATE PLANE COORDINATE SYSTEM, NORTH ZONE OF THE NORTH AMERICAN DATUM 1927, U.S. SURVEY FEET AND THE NATIONAL GEODETIC VERTICAL DATUM OF 1929.

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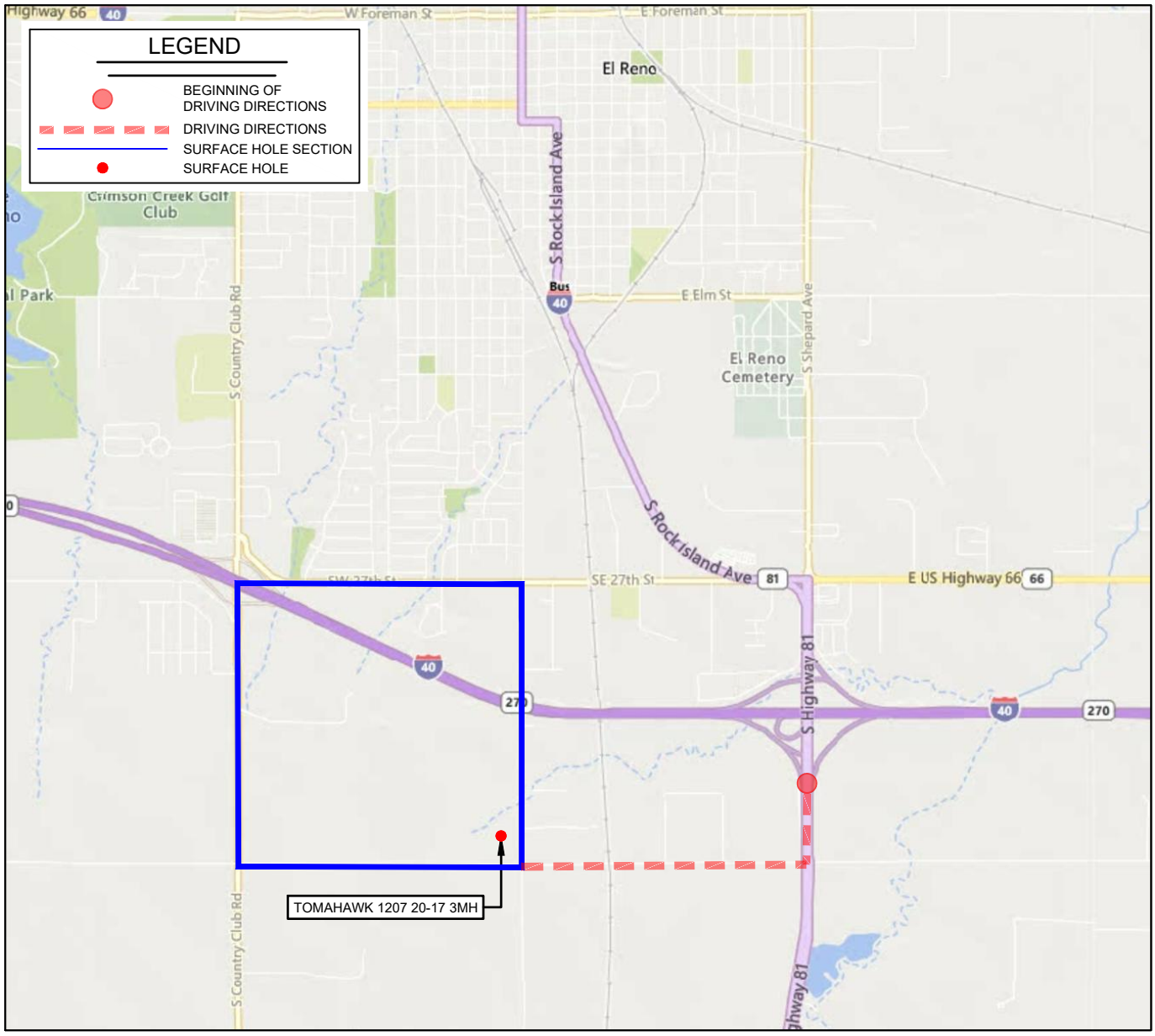
VICINITY MAP



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COUNTY CANADIAN STATE OKLAHOMA

DESCRIPTION 599' FSL & 386' FEL

DISTANCE & DIRECTION

FROM THE INTERSECTION OF I-40 & US-81 IN EL RENO, OK, GO ±0.25 MI. SOUTH ON US-81, THEN GO ±1.0 MI. WEST ON JENSEN RD E. TO THE SOUTHEAST CORNER OF 20-12N-7W.

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0' 1500' 3000'

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