

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

API NUMBER: 017 25522

Approval Date: 09/12/2019
Expiration Date: 03/12/2021

Horizontal Hole Oil & Gas
Multi Unit

PERMIT TO DRILL

WELL LOCATION: Sec: 23 Twp: 13N Rge: 9W County: CANADIAN
SPOT LOCATION: NW SE SE SW FEET FROM QUARTER: FROM SOUTH FROM WEST
SECTION LINES: 401 2047

Lease Name: JACOBS 23_14-13N-9W Well No: 4HX Well will be 401 feet from nearest unit or lease boundary.

Operator Name: DEVON ENERGY PRODUCTION CO LP Telephone: 4052353611; 4052353 OTC/OCC Number: 20751 0

DEVON ENERGY PRODUCTION CO LP
333 W SHERIDAN AVE
OKLAHOMA CITY, OK 73102-5015

TRAVIS D. JACOBS
PO BOX 113
CALUMET OK 73014

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

| Name | Depth | Name | Depth |
|-----------------|-------|------|-------|
| 1 MISSISSIPPIAN | 8921 | 6 | |
| 2 WOODFORD | 10508 | 7 | |
| 3 | | 8 | |
| 4 | | 9 | |
| 5 | | 10 | |

Spacing Orders: 560605 Location Exception Orders: Increased Density Orders: 700522
567641 700524
701981

Pending CD Numbers: 201903461 Special Orders:
201903840

Total Depth: 20565 Ground Elevation: 1413 Surface Casing: 1999 Depth to base of Treatable Water-Bearing FM: 210

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

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 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

Approved Method for disposal of Drilling Fluids:

D. One time land application -- (REQUIRES PERMIT) PERMIT NO: 19-36888

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 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

HORIZONTAL HOLE 1

Sec 14 Twp 13N Rge 9W County CANADIAN

Spot Location of End Point: NE NW NE NW

Feet From: NORTH 1/4 Section Line: 50

Feet From: WEST 1/4 Section Line: 1680

Depth of Deviation: 10160

Radius of Turn: 477

Direction: 358

Total Length: 9655

Measured Total Depth: 20565

True Vertical Depth: 10638

End Point Location from Lease,
Unit, or Property Line: 50

Notes:

Category

Description

DEEP SURFACE CASING

8/13/2019 - 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

8/13/2019 - 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

INCREASED DENSITY - 700522

8/19/2019 - GC2 - 14-13N-9W
X567641 WDFD
9 WELLS
DEVON ENERGY PRODUCTION COMPANY, L.P.
8-8-2019

INCREASED DENSITY - 700524

8/19/2019 - GC2 - 23-13N-9W
X560605 WDFD
9 WELLS
DEVON ENERGY PRODUCTION COMPANY, L.P.
8-8-2019

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.

MEMO 8/13/2019 - G71 - PITS 1 & 2 - CLOSED SYSTEM=STEEL PITS PER OPERATOR REQUEST, PIT 2 - OBM RETURNED TO VENDOR, CUTTINGS PERMITTED PER DISTRICT

PENDING CD - 201903461 8/19/2019 - GC2 - (I.O.) 14 & 23-13N-9W
X567641 MSSP, WDFD 14-13N-9W
X560605 MSSP, WDFD 23-13N-9W
COMPL. INT. (23-13N-9W) NCT 165' FSL, NCT 0' FNL, NCT 990' FWL COMPL. INT. (14-13N-9W)
NCT 0' FSL, NCT 165' FNL, NCT 990' FWL DEVON ENERGY PRODUCTION COMPANY, L.P.
REC. 7-23-2019 (P. PORTER)

PENDING CD - 201903840 8/19/2019 - GC2 - (I.O.) 14 & 23-13N-9W
X165:10-3-28(C)(2)(B) WDFD (JACOBS 23_14-13N-9W 4HX)
MAY BE CLOSER THAN 600' TO JACOBS 23_14-13N-9W 3HX & JACOBS 23_14-13N-9W 5HX
NO OP. NAMED
REC 8-12-2019 (THOMAS)

SPACING - 560605 8/19/2019 - GC2 - (640) 23-13N-9W
EXT OTHER
EXT 205440 WDFD
EST MSSP, OTHERS
VAC 279098 MSSLM, MSCST, OTHERS

SPACING - 567641 8/19/2019 - GC2 - (640) 14-13N-9W
EXT 562163 MSSP, WDFD, OTHERS
VAC 260871 MSCST, MSSLM, OTHERS
EXT OTHERS

SPACING - 701981 8/19/2019 - GC2 - (I.O.) 14 & 23-13N-9W
EST MULTIUNIT HORIZONTAL WELL
X567641 MSSP, WDFD 14-13N-9W
X560605 MSSP, WDFD 23-13N-9W
(MSSP ASSOCIATED COMMON SOURCE OF SUPPLY TO WDFD)
50% 14-13N-9W
50% 23-13N-9W
DEVON ENERGY PRODUCTION COMPANY, L.P.
9/10/2019



300 Pointe Parkway Blvd.
Yukon, OK 73099
405.787.6270 f 405.787.6276 f
www.craftontull.com

Crafton Tull
SURVEYING CA973[PE/L5] Exp. 6/30/20

OPERATOR: DEVON ENERGY PRODUCTION COMPANY, L.P.

LEASE NAME: JACOBS 23_14-13N-9W

WELL NO. 4HX

GOOD DRILL SITE: YES

CANADIAN COUNTY, STATE: OK

GROUND ELEVATION: 1412.74' GR. AT STAKE

SURFACE HOLE FOOTAGE: 2046.5' FWL - 401' FSL

SECTION: 23 **TOWNSHIP:** T13N **RANGE:** R9W

BOTTOM HOLE: 14-T13N-R9W, I.M.

ACCESSIBILITY TO LOCATION: FROM SOUTH LINE

TOPOGRAPHY & VEGETATION:

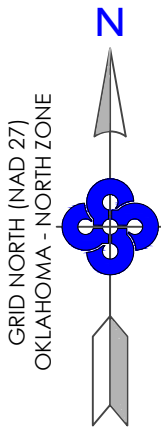
LOCATION FELL IN A FIELD

DISTANCE & DIRECTION FROM HWY JCT OR TOWN:
FROM THE INTERSECTION OF HWY 270 & 122ND ST IN
CALUMET, GO S 1.0 MI. TO DARRINGTON RD NW, THEN GO
0.6 MI. W. LEASE RD IS ON THE N SIDE OF RD

PLEASE NOTE THAT THIS LOCATION WAS STAKED ON THE GROUND UNDER THE SUPERVISION OF A LICENSED PROFESSIONAL LAND SURVEYOR, BUT ACCURACY OF THIS EXHIBIT IS NOT GUARANTEED. PLEASE CONTACT CRAFTON TULL 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.



GRID NORTH (NAD 27)
OKLAHOMA - NORTH ZONE

API: 017-25522

CANADIAN COUNTY, OKLAHOMA
2046.5' FWL - 401' FSL SECTION 23 TOWNSHIP 13N RANGE 9W I.M.

SURFACE HOLE DATA

STATE PLANE COORDINATES:

ZONE: OK-NORTH NAD27

X: 1961596.8

Y: 211640.6

GPS DATUM: NAD27

LAT: 35.58134515

LONG: -98.12914131

STATE PLANE COORDINATES:

ZONE: OK-NORTH NAD83

X: 1929998.6

Y: 211664.4

GPS DATUM: NAD83

LAT: 35.58139485

LONG: -98.12947450

BOTTOM HOLE DATA

STATE PLANE COORDINATES:

ZONE: OK-NORTH NAD27

X: 1961223.0

Y: 221765.6

GPS DATUM: NAD27

LAT: 35.60915962

LONG: -98.13044399

STATE PLANE COORDINATES:

ZONE: OK-NORTH NAD83

X: 1929624.7

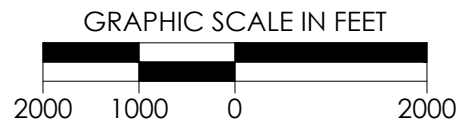
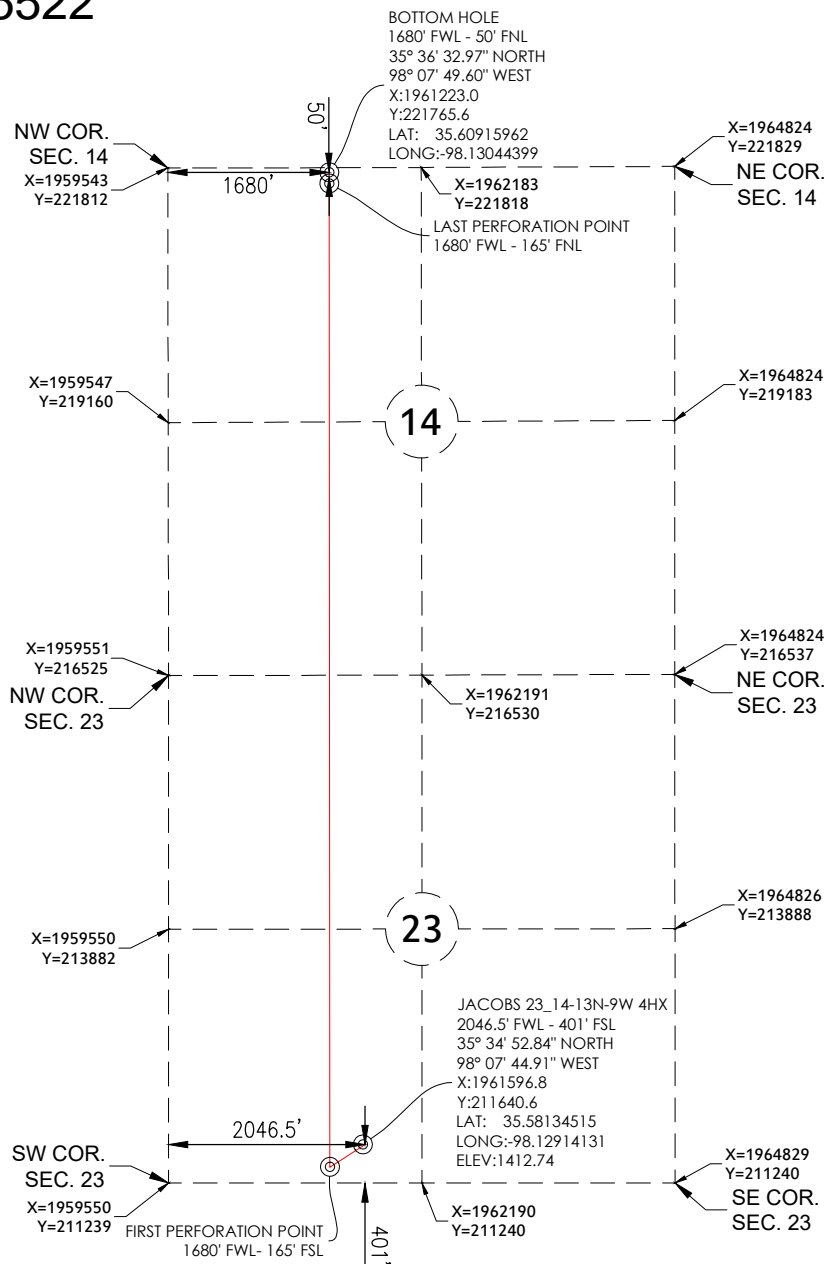
Y: 221789.5

GPS DATUM: NAD83

LAT: 35.60920867

LONG: -98.13077781

BOTTOM HOLE
INFORMATION PROVIDED
BY OPERATOR LISTED.



| | | |
|----------|---|--------------------------------|
| REVISION | "JACOBS 23_14-13N-9W 4HX" | |
| | PART OF THE SW/4 OF SECTION 23, T-13-N, R-9-W PROPOSED DRILL SITE CANADIAN COUNTY, OKLAHOMA | |
| | SCALE: 1" = 2000' | |
| | PLOT DATE: 08-27-2019 | DRAWN BY: JJ SHEET NO.: 1 OF 6 |



300 Pointe Parkway Blvd.
Yukon, OK 73099
405.787.6270 f 405.787.6276 f
www.craftontull.com

Crafton Tull
SURVEYING CA973(PE/LS) Exp. 6/30/20

OPERATOR: DEVON ENERGY PRODUCTION COMPANY, L.P.

LEASE NAME: JACOBS 23_14-13N-9W

WELL NO. 4HX

GOOD DRILL SITE: YES

CANADIAN COUNTY, STATE: OK

GROUND ELEVATION: 1412.74' GR. AT STAKE

SURFACE HOLE FOOTAGE: 2046.5' FWL - 401' FSL

SECTION: 23 **TOWNSHIP:** T13N **RANGE:** R9W

BOTTOM HOLE: 14-T13N-R9W, I.M.

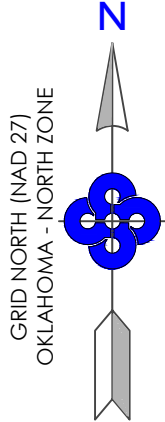
ACCESSIBILITY TO LOCATION: FROM SOUTH LINE

TOPOGRAPHY & VEGETATION:

LOCATION FELL IN A FIELD

DISTANCE & DIRECTION FROM HWY JCT OR TOWN:
FROM THE INTERSECTION OF HWY 270 & 122ND ST IN
CALUMET, GO S 1.0 MI. TO DARRINGTON RD NW, THEN GO
0.6 MI. W. LEASE RD IS ON THE N SIDE OF RD

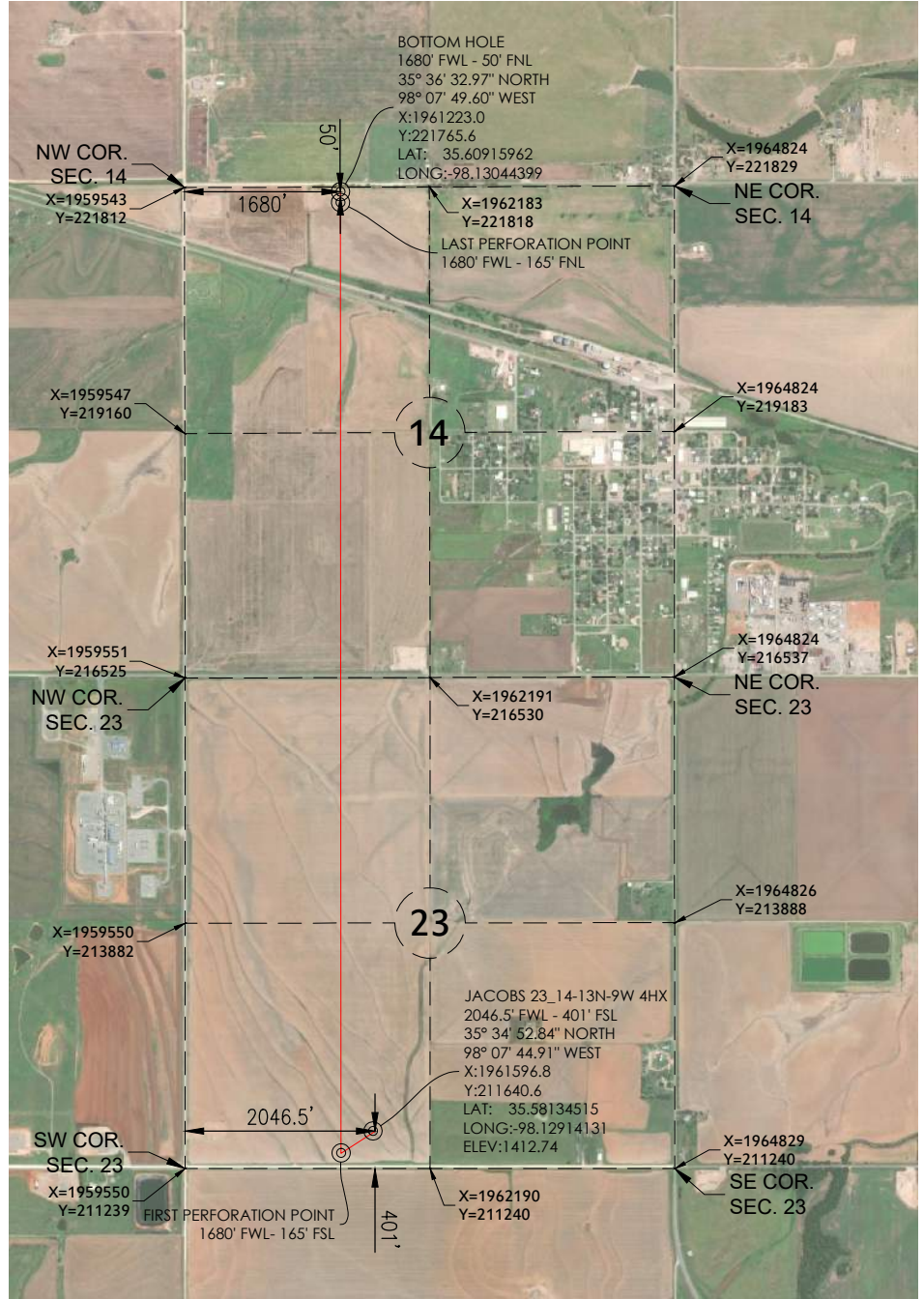
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SURFACE HOLE DATA
STATE PLANE COORDINATES:
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X: 1961596.8
Y: 211640.6
GPS DATUM: NAD27
LAT: 35.58134515
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ZONE: OK-NORTH NAD27
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LAT: 35.60915962
LONG: -98.13044399
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ZONE: OK-NORTH NAD83
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GPS DATUM: NAD83
LAT: 35.60920867
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BOTTOM HOLE
INFORMATION PROVIDED
BY OPERATOR LISTED.

CANADIAN COUNTY, OKLAHOMA
2046.5' FWL - 401' FSL SECTION 23 TOWNSHIP 13N RANGE 9W I.M.



| | | | |
|----------|---|-----------------------|--------------------------------|
| REVISION | "JACOBS 23_14-13N-9W 4HX" | | |
| | PART OF THE SW/4 OF SECTION 23, T-13-N, R-9-W PROPOSED DRILL SITE CANADIAN COUNTY, OKLAHOMA | | |
| | SCALE: 1" = 2000' | PLOT DATE: 08-27-2019 | DRAWN BY: JJ SHEET NO.: 2 OF 6 |



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Craffon Tull
SURVEYING CA973(PE/LS) Exp. 6/30/20

OPERATOR: DEVON ENERGY PRODUCTION COMPANY, L.P.

LEASE NAME: JACOBS 23_14-13N-9W

WELL NO. 4HX

GOOD DRILL SITE: YES

CANADIAN COUNTY, STATE: OK

GROUND ELEVATION: 1412.74' GR. AT STAKE

SURFACE HOLE FOOTAGE: 2046.5' FWL - 401' FSL

SECTION: 23 **TOWNSHIP:** T13N **RANGE:** R9W

BOTTOM HOLE: 14-T13N-R9W, I.M.

ACCESSIBILITY TO LOCATION: FROM SOUTH LINE

TOPOGRAPHY & VEGETATION:

LOCATION FELL IN A FIELD

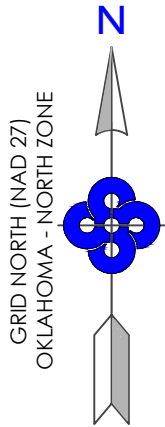
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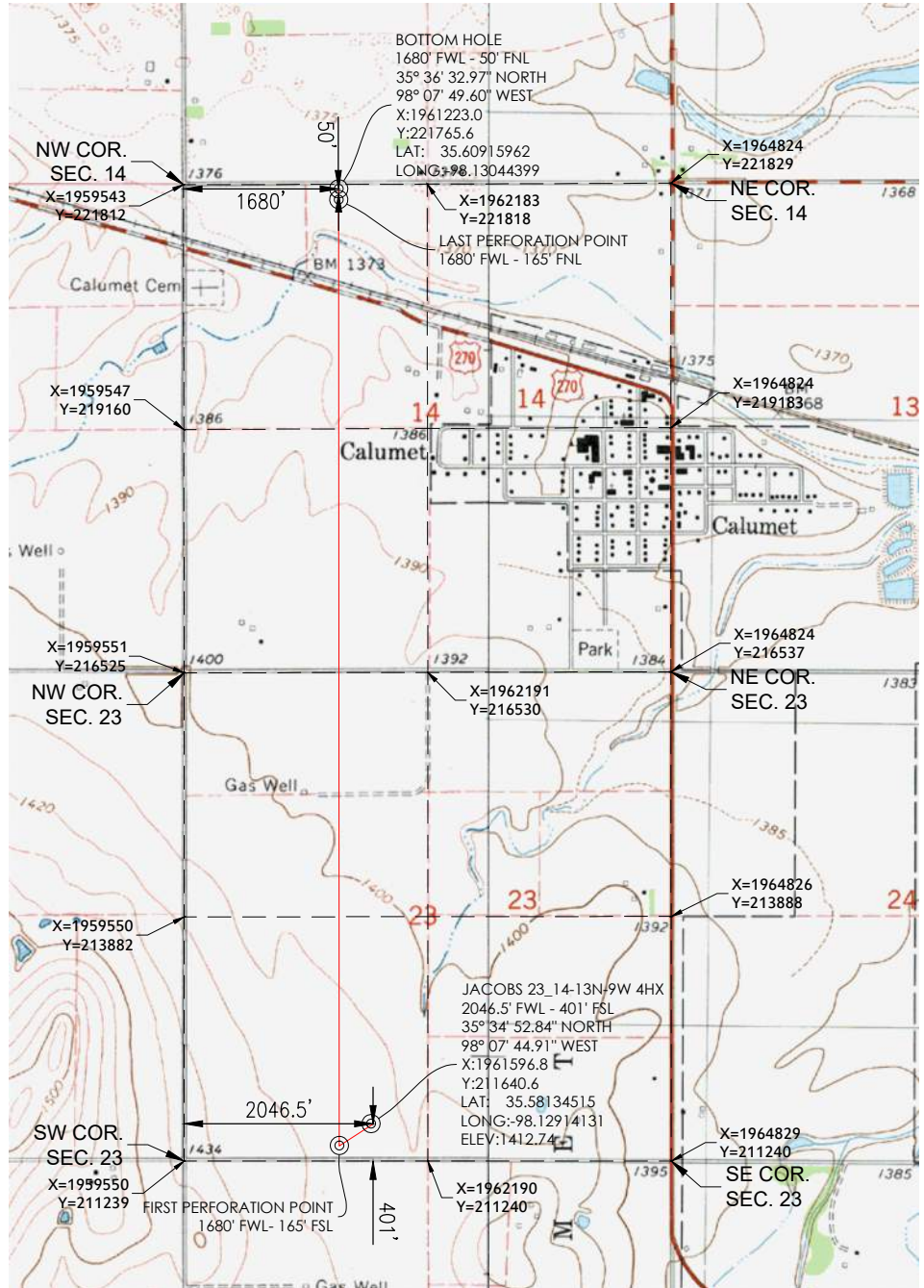
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CANADIAN COUNTY, OKLAHOMA
2046.5' FWL - 401' FSL SECTION 23 TOWNSHIP 13N RANGE 9W I.M.



SURFACE HOLE DATA

STATE PLANE COORDINATES:

ZONE: OK-NORTH NAD27

X: 1961596.8

Y: 211640.6

GPS DATUM: NAD27

LAT: 35.58134515

LONG: -98.12914131

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Y: 211664.4

GPS DATUM: NAD83

LAT: 35.58139485

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BOTTOM HOLE DATA

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ZONE: OK-NORTH NAD27

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Y: 221765.6

GPS DATUM: NAD27

LAT: 35.60915962

LONG: -98.13044399

STATE PLANE COORDINATES:

ZONE: OK-NORTH NAD83

X: 1929624.7

Y: 221789.5

GPS DATUM: NAD83

LAT: 35.60920867

LONG: -98.13077781

BOTTOM HOLE INFORMATION PROVIDED BY OPERATOR LISTED.



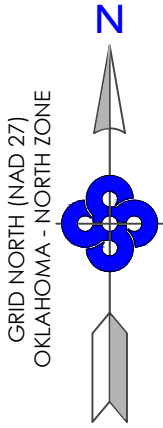
GRAPHIC SCALE IN FEET



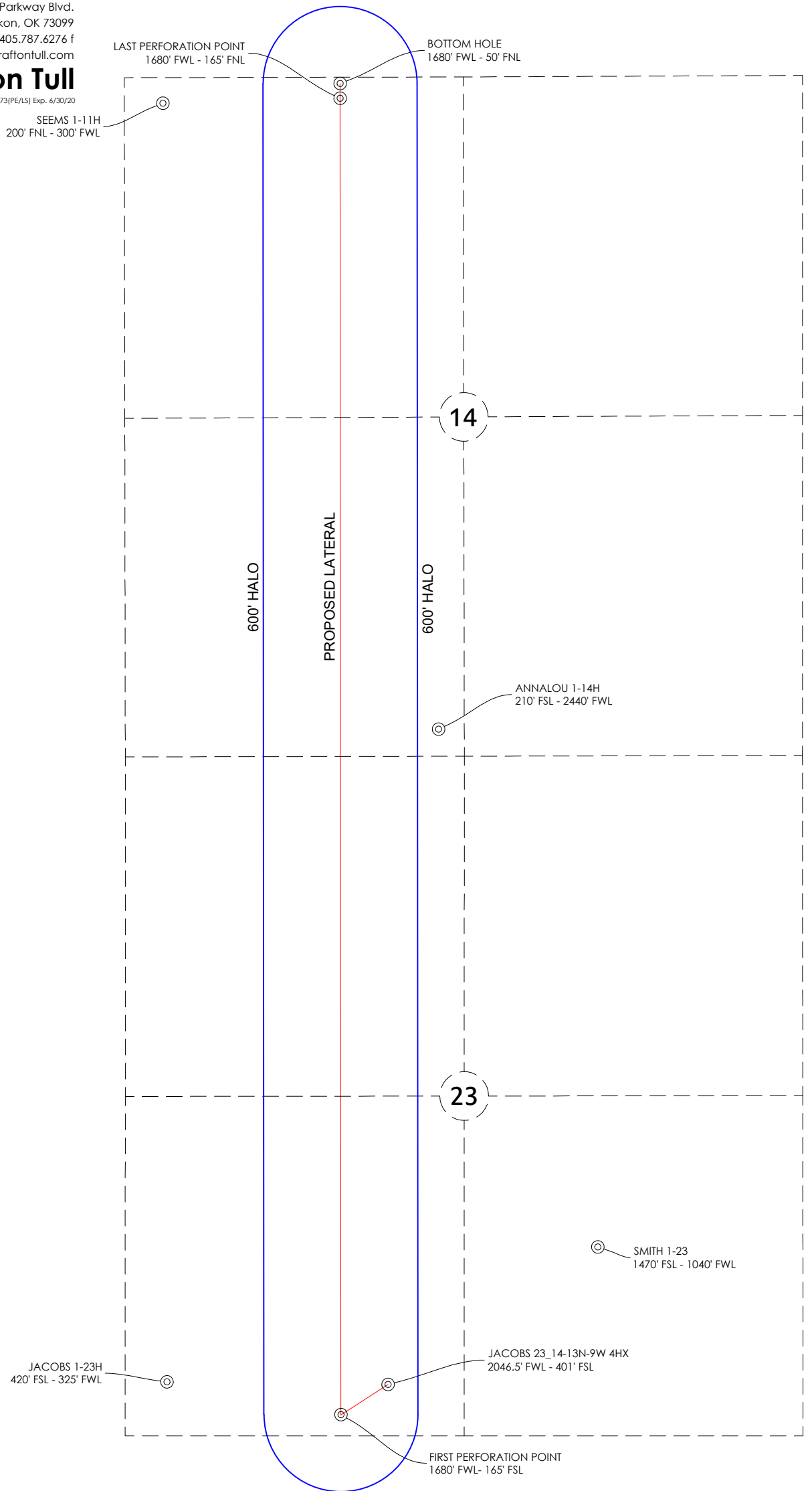
| | | | | |
|----------|---|-----------------------|--|--------------------------------|
| REVISION | "JACOBS 23_14-13N-9W 4HX" | | | |
| | PART OF THE SW/4 OF SECTION 23, T-13-N, R-9-W PROPOSED DRILL SITE CANADIAN COUNTY, OKLAHOMA | | | |
| | SCALE: 1" = 2000' | PLOT DATE: 08-27-2019 | | DRAWN BY: JJ SHEET NO.: 3 OF 6 |
| | | | | |



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BOTTOM HOLE INFORMATION PROVIDED BY OPERATOR LISTED.
 EXISTING WELL LOCATIONS TAKEN FROM CORPORATION
 COMMISSION RECORDS AND MAY NOT ENCOMPASS ALL WELLS
 CURRENTLY PERMITTING OR OTHERWISE ABSENT FROM THE RECORDS
 AT THE TIME OF THIS EXHIBIT.



| REVISION |
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| |

GRAPHIC SCALE IN FEET

"JACOBS 23_14-13N-9W 4HX"
 PART OF THE SW/4 OF SECTION 23, T-13-N, R-9-W
 CANADIAN COUNTY, OKLAHOMA
 EXISTING WELL PROXIMITY

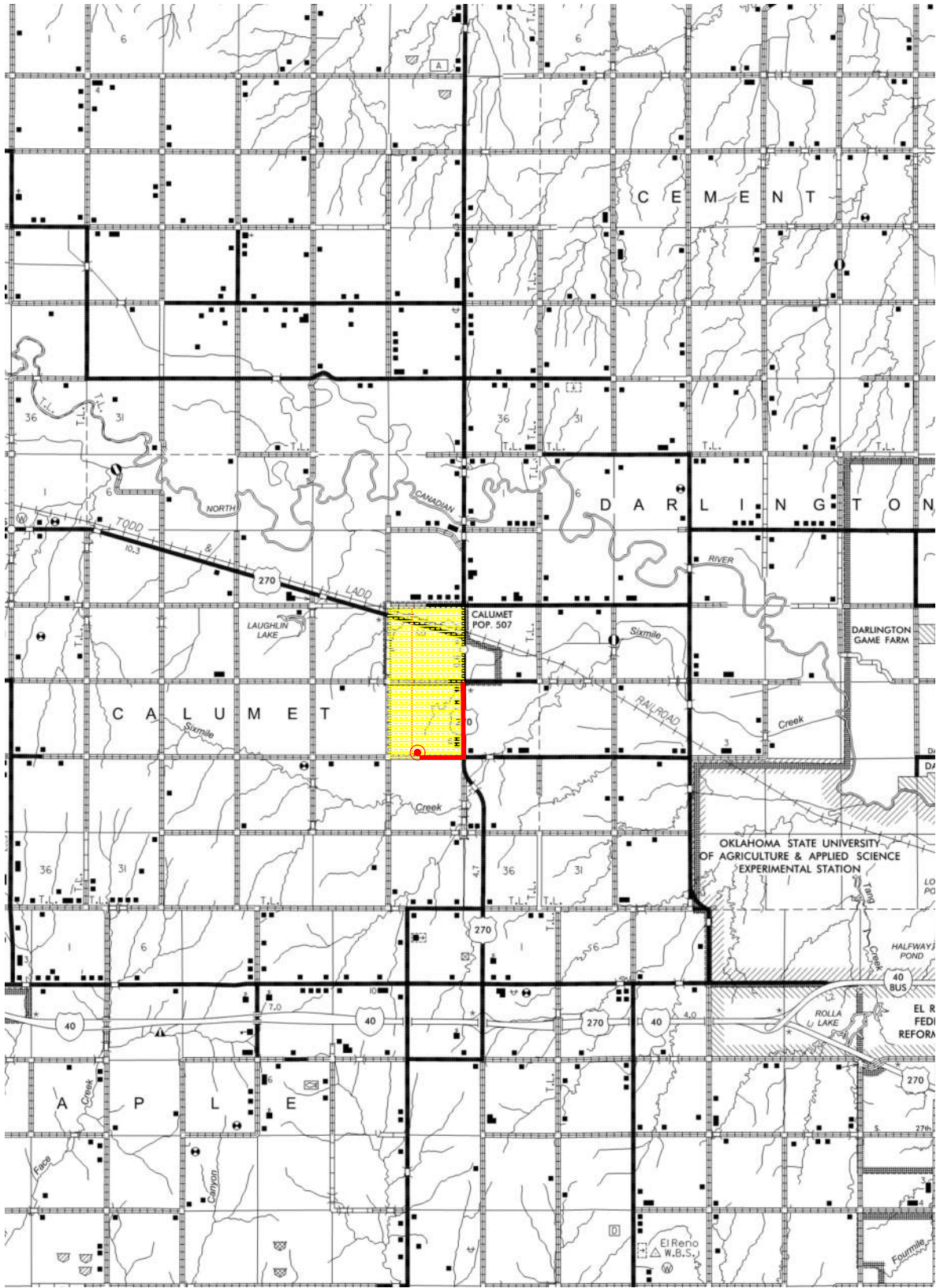
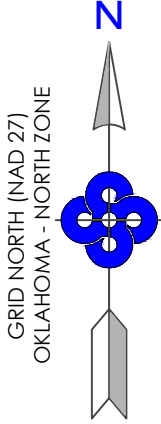
SCALE: 1" = 1000'
 PLOT DATE: 08-27-2019 DRAWN BY: JJ SHEET NO.: 4 OF 6





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 SURVEYING CA973(PE/LS) Exp. 6/30/20

VICINITY MAP



SEC. 23 TWP. 13N RNG. 9W

COUNTY: CANADIAN STATE: OK

OPERATOR: Devon Energy Production Company, L.P.

GRAPHIC SCALE IN MILES



| | | | |
|----------|---|-----------|----------------------|
| REVISION | "JACOBS 23_14-13N-9W 4HX" | | |
| | PART OF THE SW/4 OF SECTION 23, T-13-N, R-9-W PROPOSED DRILL SITE CANADIAN COUNTY, OKLAHOMA | | |
| | SCALE: 1/2" = 1 MILE | DRAWN BY: | JJ SHEET NO.: 5 OF 6 |
| | PLOT DATE: 08-27-2019 | | |

R 9 W

23

T 13 N

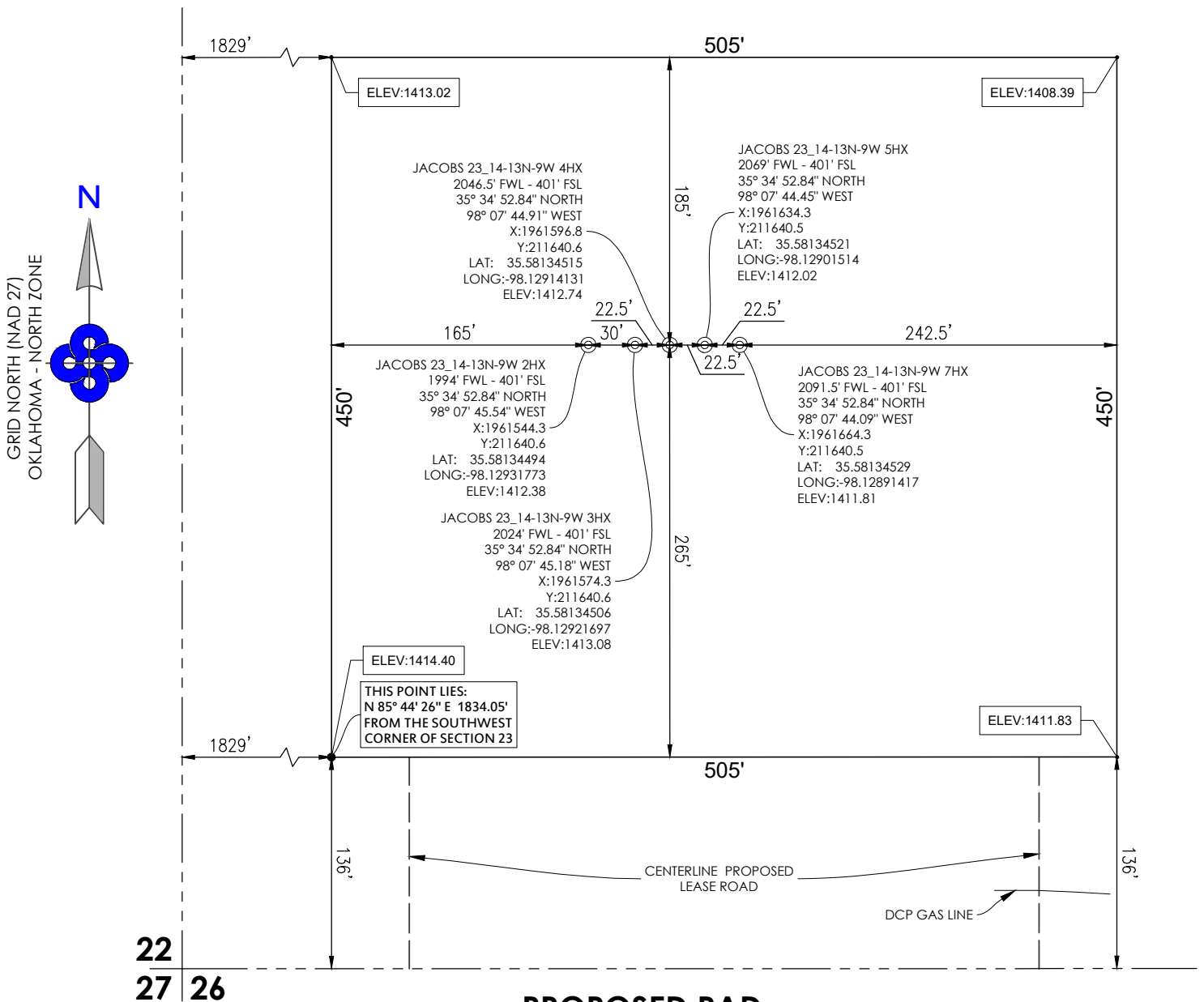
VICINITY MAP
SCALE: 1" = 1000'

JACOBS 23_14-13N-9W 4HX
 2046.5' FWL - 401' FSL
 35° 34' 52.84" NORTH
 98° 07' 44.91" WEST
 X:1961596.8
 Y:211640.6
 LAT: 35.58134515
 LONG:-98.12914131
 ELEV:1412.74

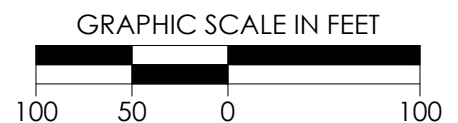
22
27 26

CANADIAN COUNTY, OKLAHOMA

2046.5' FWL - 401' FSL SECTION 23 TOWNSHIP 13N RANGE 9W I.M.



PROPOSED PAD
V-Door SOUTH



| | | | |
|----------|---|-----------|----------------------|
| REVISION | "JACOBS 23_14-13N-9W 4HX" | | |
| | PART OF THE SW/4 OF SECTION 23, T-13-N, R-9-W PROPOSED PAD SITE CANADIAN COUNTY, OKLAHOMA | | |
| | SCALE: 1" = 100' | DRAWN BY: | JJ SHEET NO.: 6 OF 6 |
| | PLOT DATE: 08-27-2019 | | |