

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

API NUMBER: 017 25590 A

Approval Date: 01/10/2020

Expiration Date: 07/10/2021

Horizontal Hole Oil & Gas
Multi Unit

Amend reason: UPDATE BHL (SLOT)

AMEND PERMIT TO DRILL

WELL LOCATION: Sec: 10 Twp: 14N Rge: 7W

County: CANADIAN

SPOT LOCATION: ☐ NW ☐ SE ☐ SW ☐ SE

FEET FROM QUARTER: FROM SOUTH FROM EAST

SECTION LINES: 388 1855

Lease Name: KLADE

Well No: 1407 2H-3X

Well will be 388 feet from nearest unit or lease boundary.

Operator NEWFIELD EXPLORATION MID-CON INC
Name:

Telephone: 2812105100; 9188781

OTC/OCC Number: 20944 0

NEWFIELD EXPLORATION MID-CON INC
4 WATERWAY AVE STE 100
THE WOODLANDS, TX 77380-2764

BENJAMIN AND ELIZABETH ZUM MALLEN, H/W
2153 BENWICKE DRIVE
PFAFFTOWN NC 27040

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

	Name	Depth	Name	Depth
1	MISSISSIPPIAN	8201	6	
2	WOODFORD	8685	7	
3			8	
4			9	
5			10	

Spacing Orders: 599529
706425

Location Exception Orders: 706437
706426

Increased Density Orders: 705327
705329

Pending CD Numbers:

Special Orders:

Total Depth: 18866

Ground Elevation: 1154

Surface Casing: 1500

Depth to base of Treatable Water-Bearing FM: 260

Deep surface casing has been approved

Under Federal Jurisdiction: No

Fresh Water Supply Well Drilled: No

Surface Water used to Drill: No

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: 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 located in a Hydrologically Sensitive Area.

Category of Pit: C

Liner not required for Category: C

Pit Location is BED AQUIFER

Pit Location Formation: DUNCAN

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

PERMIT NO: 19-37173

E. Haul to Commercial pit facility: Sec. 31 Twn. 12N Rng. 8W Cnty. 17 Order No: 587498

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: DUNCAN

HORIZONTAL HOLE 1

Sec 03 Twp 14N Rge 7W County CANADIAN

Spot Location of End Point: NE NW NE NE

Feet From: NORTH 1/4 Section Line: 85

Feet From: EAST 1/4 Section Line: 775

Depth of Deviation: 7899

Radius of Turn: 403

Direction: 360

Total Length: 10334

Measured Total Depth: 18866

True Vertical Depth: 8685

End Point Location from Lease,
Unit, or Property Line: 85

Notes:

Category

Description

DEEP SURFACE CASING

1/9/2020 - 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

EXCEPTION TO RULE - 706437 (201904647)

1/10/2020 - GC2 - (I.O.) 3 & 10-14N-7W
X165:10-3-28(C)(2)(B) MSSP, WDFD, OTHER (KLADE 1407 2H-3X)
MAY BE CLOSER THAN 600' TO KLADE 1407 3H-3X, KLADE 1407 4H-3X, KLADE 1407 5H-3X,
KLADE 1407 6H-3X, KLADE 1407 7H-3X, KLADE 1407 8H-3X, KLADE 1H-3X, SCHRODER #1
NO OP. NAMED
12-16-2019

HYDRAULIC FRACTURING

1/9/2020 - 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

INCREASED DENSITY - 705327 (201904630)

1/10/2020 - GC2 - 3-14N-7W
X599529 WDFD
7 WELLS
NEWFIELD EXPLORATION MID-CONTINENT INC
11-19-2019

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.

017 25590 KLADE 1407 2H-3X

INCREASED DENSITY - 705329 (201904632)	1/10/2020 - GC2 - 10-14N-7W X599529 WDFD 7 WELLS NEWFIELD EXPLORATION MID-CONTINENT INC 11-19-2019
LOCATION EXCEPTION - 706426 (201904636)	1/10/2020 - GC2 - (I.O.) 3 & 10-14N-7W X599529 MSSP, WDFD, OTHER 3 & 10-14N-7W COMPL. INT. (10-14N-7W) NCT 165' FSL, NCT 0' FNL, NCT 330' FEL COMPL. INT. (3-14N-7W) NCT 0' FSL, NCT 165' FNL, NCT 330' FEL NEWFIELD EXPLORATION MID-CONTINENT INC 12-16-2019
MEMO	1/9/2020 - G71 - PIT 1 & 2 - CLOSED SYSTEM = STEEL PITS (REQUIRED - UNCLE JOHN CREEK), WBM/CUTTINGS & OBM CUTTINGS CAPTURED IN STEEL HALF PITS, WBM/CUTTINGS WILL BE SOIL FARMED, OBM CUTTINGS TRANSFERRED TO R360 587498 (31-12N-8W), CANADIAN CO, PIT 2 - OBM TO VENDOR
SPACING - 599529	1/10/2020 - GC2 - (640)(HOR) 3 & 10-14N-7W EXT 587241 MSSP, WDFD, OTHER COMPL. INT. (MSSP, OTHER) NCT 660' FB COMPL. INT. (WDFD) NCT 165' FNL/FSL, NCT 330' FEL/FWL (COEXIST EXISTING NON-HORIZONTAL SPACING UNITS; SUPERSEDE NON-DEVELOPED NON- HORIZONTAL SPACING UNITS)
SPACING - 706425 (201904635)	1/10/2020 - GC2 - (I.O.) 3 & 10-14N-7W EST MULTIUNIT HORIZONTAL WELL X599529 MSSP, WDFD, OTHER 3 & 10-14N-7W 50% 3-14N-7W 50% 10-14N-7W NEWFIELD EXPLORATION MID-CONTINENT INC 12-16-2019

VICINITY MAP - NOT TO SCALE



NEWFIELD EXPLORATION
MID-CON INC

KLADE 1407
EAST PAD

LOCATION DESCRIPTION:

SECTION 10, T14N - R7W

CANADIAN COUNTY, OKLAHOMA

SPECIAL NOTES:

PROPOSED FINAL
CONTOURS PLAT

Original Document Size: 11"x17"
All Coordinates are in NAD 83 OK NORTH Zone
unless otherwise noted.
For construction purposes only.
Ownership provided by McDonald Land Services, LLC.

LEGEND

- Section Line
- Proposed Road
- Existing Road
- X Fence
- Existing Pipeline
- Shaded Area of Pad is Fill

Scale: 1"=100' Surveyed: 12-06-2019

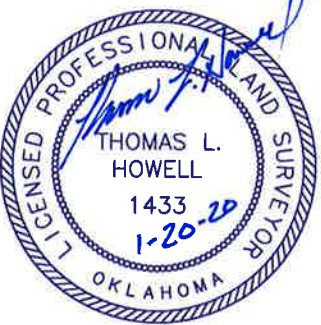
COGO: KLADE EAST PAD_83

Revision: 3 DM 01-20-2020

Drawn By: EAH 12-09-2019



13800 WIRELESS WAY • OKLAHOMA CITY, OKLAHOMA 73134
TELEPHONE: (405) 843-4847 OR (800) 654-3219 • FAX (405) 843-0975
CERTIFICATE OF AUTHORIZATION NO. 1292 LS
WWW.TOPOGRAPHIC.COM



Topographic Survey Certification

I, Thomas L. Howell, certify that this project was completed under my direct and responsible charge from an actual survey made under my supervision and that this ground survey was performed at the 95 percent confidence level to meet Federal Geographic Data Committee Standards; that this survey was performed to meet the Specifications for Topographic and Planimetric Mapping contained in the Oklahoma Minimum Standards for the Practice of Land Surveying as adopted by the Oklahoma State Board of Licensure for Professional Engineers and Land Surveyors. The original data was obtained on 12/06/2019; the survey was completed on 12/06/2019; the contours shown as even feet may not meet the stated standard; all coordinates are based on Oklahoma North Zone, NAD-83, adjusted to an OPUS solution(s), and all elevations are based on NAVD-88 Datum.

CONTROL SURVEY CERTIFICATION

I, Thomas L. Howell, certify that this horizontal/vertical control survey was completed under my direct and responsible charge from an actual survey made under my supervision and meets the Oklahoma Minimum Standards for the Practice of Land Surveying as adopted by the Oklahoma State Board of Licensure for Professional Engineers and Land Surveyors.

Control Notes:

- All horizontal coordinate values are shown in U.S. Survey feet and all vertical elevation values are shown in feet.
- All control points are based on initial control. Control Point(s) was (were) used as the basis of horizontal and vertical control. Control Point(s) to be used as the basis of bearing.
- All bearings are based on State Plane Coordinates, Oklahoma North Zone, NAD-83, established by OPUS solution(s). Distances shown are grid distances. All field measurements and angles applied to control points were made with a Trimble R10, GNSS Observer. Horizontal accuracy is 0.25 m+1ppm RMS. Vertical accuracy is 0.5m+1ppm RMS.
- All elevations of control points are based on initial elevation of OPUS solutions in NAVD-88. All elevations are determined by a Trimble R10, GNSS Observer. Horizontal accuracy is 0.25 m+1ppm RMS. Vertical accuracy is 0.5m+1ppm RMS.
- All control points were set and observed on 12/06/2019 and adjusted to final coordinates on 12/06/2019.

API: 017-25590A

OWNER: BENJAMIN J. ZUM MALLEN
LEGAL: SE/4 OF SECTION 10
BOOK: RB3803 PAGE: 691

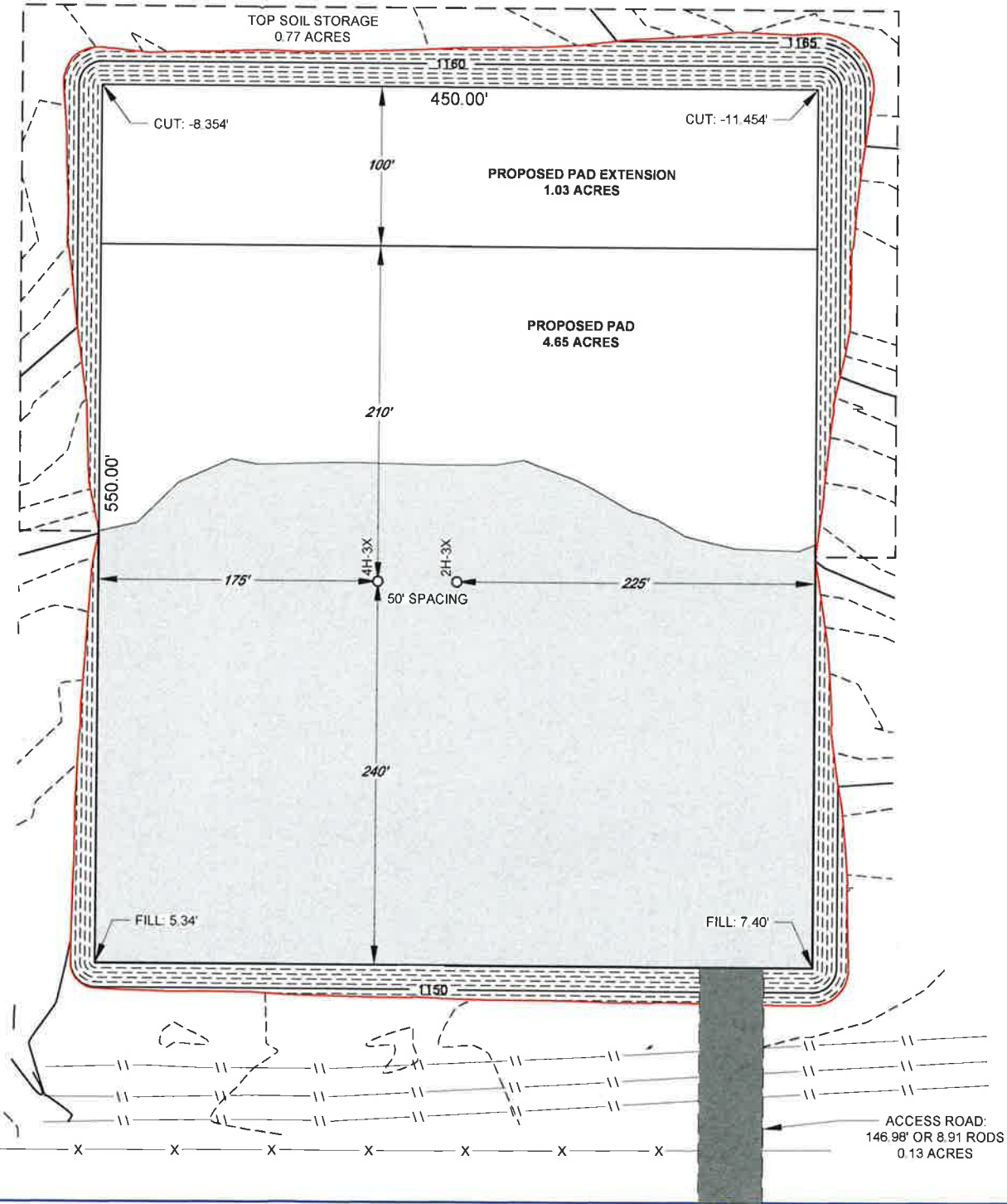
Pad Report

Top of pad elevation: 1155.0957
Cut Slope: 33.33% 3,000:1 18.43°
Fill Slope: 33.33% 3,000:1 18.43°
Balance Tolerance (C.Y.): 0.00
Cut Swell Factor: 1.00
Fill Shrink Factor: 1.00

Pad Earthwork Volumes

Cut: 618,392.0 C.Y., 22,903.41 C.Y.
Fill: 618,391.9 C.Y., 22,903.41 C.Y.
Area: 286520.8 Sq Ft., 6.578 Acres

Total Disturbed Acreage
7.46 ACRES



CONTROL
POINT #1
X= 1989041.15
Y= 253618.43
Z: 1149.33

CONTROL
POINT #2
X= 1989588.88
Y= 253595.54
Z: 1148.03

KLADE 1407 2H-3X

SURVEY LINE PERPENDICULARS:
388' FSL & 1855' FEL

COORDINATES:

NAD 27 OK NORTH ZONE:

X = 2020948 Y = 254012

LAT.: 35°41'52.1" N LONG.: 97°55'46.0" W

LAT.: 35.697798° N LONG.: 97.929453° W

COORDINATES:

NAD 83 OK NORTH ZONE:

X = 1989350 Y = 254036

LAT.: 35°41'52.2" N LONG.: 97°55'47.2" W

LAT.: 35.697845° N LONG.: 97.929782° W

KLADE 1407 4H-3X

SURVEY LINE PERPENDICULARS:
388' FSL & 1905' FEL

COORDINATES:

NAD 27 OK NORTH ZONE:

X = 2020898 Y = 254012

LAT.: 35°41'52.1" N LONG.: 97°55'46.6" W

LAT.: 35.697798° N LONG.: 97.929622° W

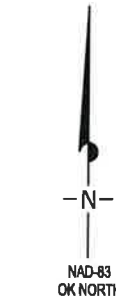
COORDINATES:

NAD 83 OK NORTH ZONE:

X = 1989300 Y = 254036

LAT.: 35°41'52.2" N LONG.: 97°55'47.8" W

LAT.: 35.697845° N LONG.: 97.929950° W



SCALE: 1" = 100'
0' 50' 100'

TOPOGRAPHIC LAND SURVEYORS

13800 Wireless Way, Okla. City, OK, 73134 * LOCAL (405) 843-4847 * OUT OF STATE (800) 654-3219
Certificate of Authorization No. 1292 LS

CANADIAN

COUNTY, OKLAHOMA

388' FSL - 1855' FEL SECTION 10 TOWNSHIP 14N RANGE 7W I.M.

N 89°58'31" E 2627.36' T15N-R7W

N 89°59'25" E 2645.81'



NOTES:

- THE INFORMATION SHOWN HEREIN IS FOR CONSTRUCTION PURPOSES ONLY.
- ALL BEARINGS SHOWN ARE GRID, NAD-83, OKLAHOMA NORTH.
- LANDING POINT, LAST TAKE POINT, BOTTOM HOLE AND DRILL PATH INFORMATION PROVIDED BY CLIENT LISTED, NOT SURVEYED.

SURFACE LOCATION

DATUM: NAD-27
LAT: 35°41'52.1" N
LONG: 97°55'46.0" W
LAT: 35.697798° N
LONG: 97.929453° W
STATE PLANE
COORDINATES: (US Feet)
ZONE: OK NORTH
X: X 2020948
Y: Y 254012

DATUM: NAD-83
LAT: 35°41'52.2" N
LONG: 97°55'47.2" W
LAT: 35.697845° N
LONG: 97.929782° W
STATE PLANE
COORDINATES: (US Feet)
ZONE: OK NORTH
X: X 1989350
Y: Y 254036

(This information was gathered with a GPS receiver with ±1 foot Horiz./Vert. accuracy.)

CERTIFICATE:

I, Thomas L. Howell an Oklahoma Licensed Land Surveyor and an authorized agent of Topographic Land Surveyors of Oklahoma, do hereby certify to the information shown herein.

Thomas L. Howell
Oklahoma Reg. No. 1433



OPERATOR: NEWFIELD EXPLORATION MID-CON INC

LEASE NAME: WELL NO: KLADE 1407 WELL NO: 2H-3X

TOPOGRAPHY & VEGETATION LOCATION FELL ON EXISTING PAD

GOOD DRILL SITE? Yes REFERENCE STAKES OR ALTERNATE LOCATION STAKES SET: None

BEST ACCESSIBILITY TO LOCATION: From North off county road.

DISTANCE & DIRECTION: From Okarche, OK, go South ±2 miles on US Hwy. 81/St. Hwy. 3, then East ±2.2 miles to the Southeast corner of Section 10-T14N-R7W.

ELEVATION:

1154' Gr. at Existing Pad (NGVD29)
1154' Gr. at Existing Pad (NAVD88)

PROJECT # 131998

DATE OF DRAWING: JANUARY 20, 2020

DATE STAKED: DECEMBER 06, 2019

DRAWN BY: EAH

REVISION: 2

FILE NAME: LO KLADE 1407 2H-3X REV2

TOPOGRAPHIC LAND SURVEYORS

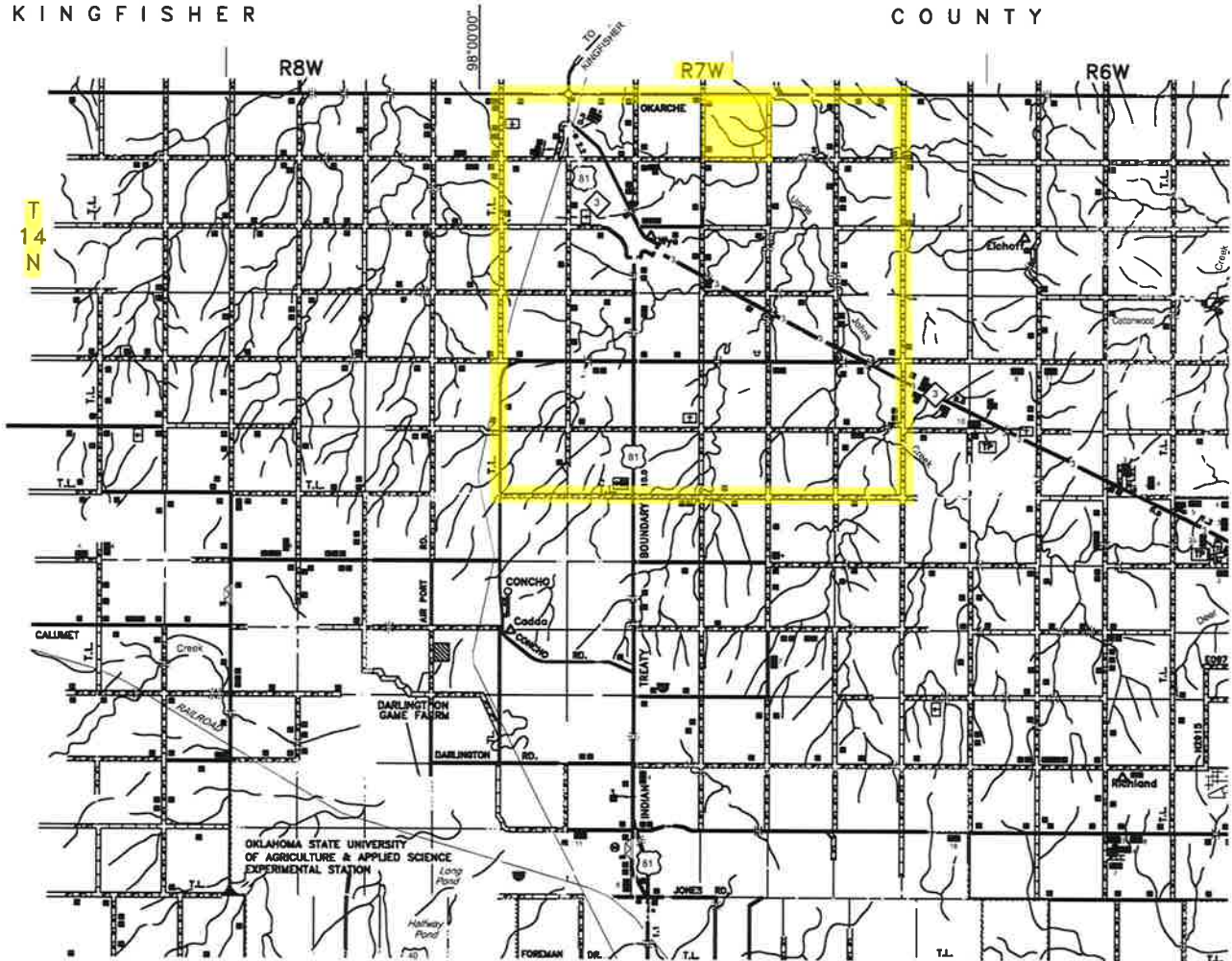
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Certificate of Authorization No. 1292 LS



GRID
NAD-83
OK NORTH
US FEET
1"=3 MILES

KINGFISHER

COUNTY



SECTION 10 TOWNSHIP 14N RANGE 7W I.M.

COUNTY CANADIAN STATE OKLAHOMA

OPERATOR NEWFIELD EXPLORATION MID-CON INC



TOPOGRAPHIC
LOYALTY INNOVATION LEGACY

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