API NUMBER: 073 26776

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: 08/16/2021
Expiration Date: 02/16/2023

PERMIT TO DRILL

WELL LOCATION: Section: 17 Township: 17N Range: 9W County: KINGFISHER

SPOT LOCATION: SW NE NE NW FEET FROM QUARTER: FROM **NORTH** FROM **WEST**
SECTION LINES: **655** **2135**

Lease Name: **GARMS 1709** **Well No:** **2H-17X** **Well will be** **655** **feet from nearest unit or lease boundary.**

Operator Name: **OVINTIV USA INC** Telephone: 2812105100 OTC/OCC Number: 21713 0

OVINTIV USA INC
4 WATERWAY SQUARE PLACE, STE 100
THE WOODLANDS, TX 77380-3197

PEARL O. MITCHELL REVOCABLE LIVING TRUST ETAL
401 E. INDIANA
ENID OK 73701

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

	Name	Code	Depth
1	MISSISSIPPIAN (LESS CHESTER)	359MSNLC	8568
2	WOODFORD	319WDFD	9403

Spacing Orders: 643256, 719836, 645301, 645331

Location Exception Orders: 719837, 719862

Increased Density Orders: 719811, 719833

Pending CD Numbers: No Pending

Working interest owners' notified: ***

Special Orders: No Special Orders

Total Depth: 19008 Ground Elevation: 1177 **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: Yes

Approved Method for disposal of Drilling Fluids:	
D. One time land application -- (REQUIRES PERMIT)	PERMIT NO: 21-37765
E. Haul to Commercial pit facility	Sec. 31 Twn. 12N Rng. 8W Cnty. 17 Order No: 587498
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: FLOWERPOT

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: FLOWERPOT

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: 20	Township: 17N	Range: 9W	Meridian: IM
County: KINGFISHER			
Spot Location of End Point: SE	SW	SE	SW
Feet From: **SOUTH**	1/4 Section Line: 85		
Feet From: **WEST**	1/4 Section Line: 1940		

Total Length:	10250
Measured Total Depth:	19008
True Vertical Depth:	9403
End Point Location from Lease,Unit, or Property Line:	85

NOTES:

Category	Description
DEEP SURFACE CASING	[8/12/2021 - 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
EXCEPTION TO RULE - 719862	[8/13/2021 - G56] - (I.O.) 17 & 20-17N-9W X165:10-3-28(C)(2)(B) MSNLC (GARMS 1709 2H-17X) MAY BE CLOSER THAN 600' TO GARMS 1H-17X, WARREN 17-1, MEYER 17-1, KIRSCH 1-20, KIRSCH 2-20 WELLS NO OP NAMED 8/3/2021
HYDRAULIC FRACTURING	[8/12/2021 - 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
INCREASED DENSITY - 719811	[8/13/2021 - G56] - 17-17N-9W X643256/645331 MSNLC*** 5 WELLS OVINTIV MID-CON INC (MERGED IN ITS ENTIRETY TO OVINTIV USA INC) 7/30/2021 ***S/B X643256/645301/645331 MSNLC, WILL BE CORRECT VIA NPT PER ATTORNEY FOR OPERATOR;
INCREASED DENSITY - 719833	[8/13/2021 - G56] - 20-17N-9W X643256/645331 MSNLC*** 5 WELLS OVINTIV MID-CON INC (MERGED IN ITS ENTIRETY TO OVINTIV USA INC) 8/2/2021 ***S/B X643256/645301/645331 MSNLC, WILL BE CORRECT VIA NPT PER ATTORNEY FOR OPERATOR;
LOCATION EXCEPTION - 719837	[8/13/2021 - G56] - (I.O) 17 & 20-17N-9W X643256/645331 MSNLC, WDFD*** COMPL INT (20-17N-9W) NCT 165' FSL, NCT 0' FNL, NCT 1320' FWL COMPL INT (17-17N-9W) NCT 0' FSL, NCT 165' FNL, NCT 1320' FWL OVINTIV MID-CONTINENT INC (MERGED IN IT'S ENTIRETY TO OVINTIV USA INC) 8/2/2021 ***S/B X643256/645301/645331 MSNLC, WDFD; WILL BE CORRECTED AT FINAL HEARING PER ATTORNEY FOR OPERATOR;
MEMO	[8/12/2021 - GC2] - CLOSED SYSTEM=STEEL PITS PER OPERATOR REQUEST, 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.

SPACING - 643256	[8/13/2021 - G56] - (640)(HOR) 17 & 20-17N-9W EXT 640342 MSNLC EXT 639140 WDFD COMPL INT (MSNLC) NLT 660' FB COMPL INT (WDFD) NLT 165' FNL/FSL, 330' FEL/FWL (COEXIST WITH SP # 84210 MSSSD 17-17N-9W)
SPACING - 645301	[8/13/2021 - G56] - CONFIRM SP # 643256 MSNLC, OTHER AS TO NOTICE OF RESPONDENTS
SPACING - 645331	[8/13/2021 - G56] - NPT CORRECTING 643256 TO COEXIST WITH SP # 84210 MSSSD, MNNG
SPACING - 719836	[8/13/2021 - G56] - (I.O) 17 & 20-17N-9W EST MULTIUNIT HORIZONTAL WELL X643256/645331 MSNLC, WDFD*** 50% 17-17N-9W 50% 20-17N-9W OVINTIV MID-CONTINENT INC (MERGED IN IT'S ENTIRETY TO OVINTIV USA INC) 8/2/2021 ***S/B X643256/645301/645331 MSNLC, WDFD; WILL BE CORRECTED AT FINAL HEARING PER ATTORNEY FOR OPERATOR;

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.

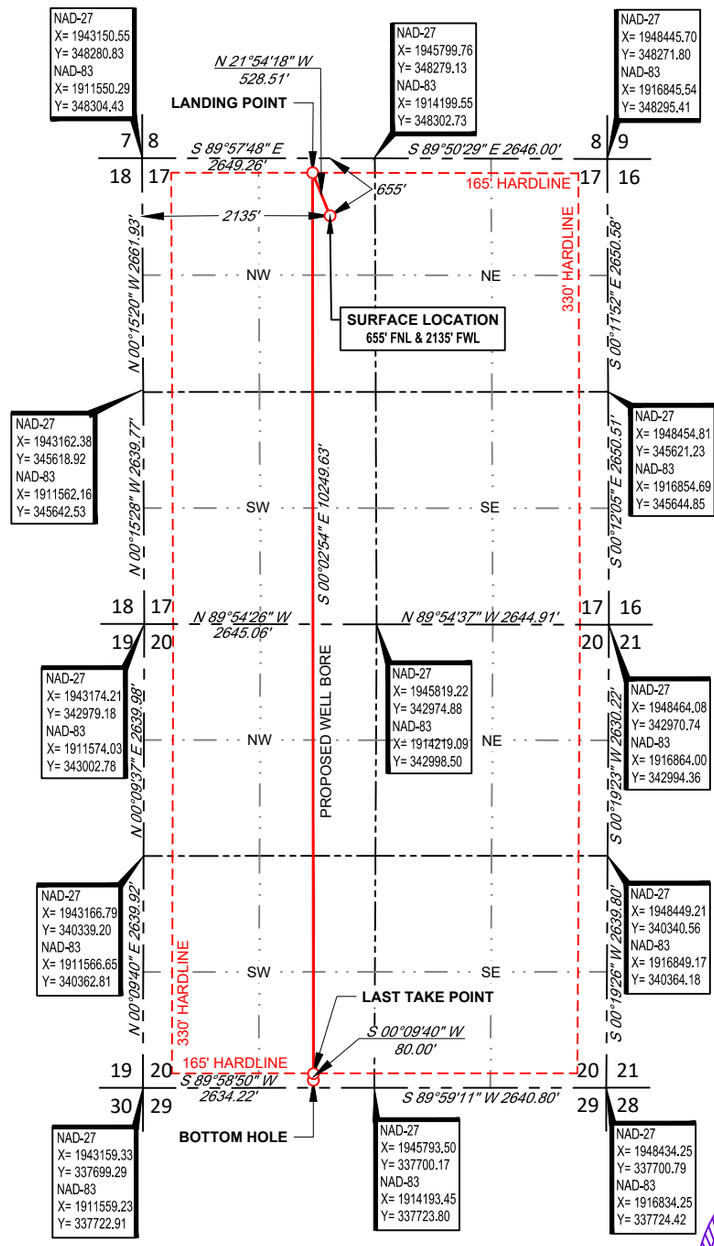
WELL LOCATION

GARMS 1709 2H-17X
OVINTIV MID-CONTINENT INC.
SECTION 17, TOWNSHIP 17N, RANGE 9W, I.M.
KINGFISHER COUNTY, OKLAHOMA

GRID
OK NORTH
US FEET

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

LEGEND
- SECTION LINE
- QUARTER SECTION LINE
- 16TH LINE
- PROPOSED WELL BORE



SURFACE LOCATION
655' FNL & 2135' FWL
NAD-27
X= 1945288
Y= 347624
LAT.: 35°57'17.5" N
LONG.: 98°11'05.5" W
LAT.: 35.954850° N
LONG.: 98.184853° W
ELEV.: 1176' (NGVD29)
NAD-83
X= 1913688
Y= 347648
LAT.: 35°57'17.6" N
LONG.: 98°11'06.7" W
LAT.: 35.954889° N
LONG.: 98.185196° W
ELEV.: 1177' (NAVD88)

LANDING POINT
165' FNL & 1940' FWL
NAD-27
X= 1945091
Y= 348115
LAT.: 35°57'22.3" N
LONG.: 98°11'07.9" W
LAT.: 35.956196° N
LONG.: 98.185522° W
NAD-83
X= 1913491
Y= 348138
LAT.: 35°57'22.4" N
LONG.: 98°11'09.1" W
LAT.: 35.956235° N
LONG.: 98.185866° W

LAST TAKE POINT
165' FSL & 1940' FWL
NAD-27
X= 1945100
Y= 337865
LAT.: 35°55'40.9" N
LONG.: 98°11'07.5" W
LAT.: 35.928038° N
LONG.: 98.185428° W
NAD-83
X= 1913500
Y= 337889
LAT.: 35°55'41.1" N
LONG.: 98°11'08.8" W
LAT.: 35.928078° N
LONG.: 98.185770° W

BOTTOM HOLE
85' FSL & 1940' FWL
NAD-27
X= 1945100
Y= 337785
LAT.: 35°55'40.1" N
LONG.: 98°11'07.5" W
LAT.: 35.927818° N
LONG.: 98.185428° W
NAD-83
X= 1913499
Y= 337809
LAT.: 35°55'40.3" N
LONG.: 98°11'08.8" W
LAT.: 35.927858° N
LONG.: 98.185770° W

LICENSED PROFESSIONAL LAND SURVEYOR
THOMAS L. HOWELL
1433
08-09-21
OKLAHOMA

SURVEYOR'S CERTIFICATE:

I, THOMAS L. HOWELL, AN OKLAHOMA LICENSED LAND SURVEYOR AND AN AUTHORIZED AGENT OF TOPOGRAPHIC LAND SURVEYORS, DO HEREBY CERTIFY TO THE INFORMATION SHOWN HEREIN.

Thomas L. Howell

Thomas L. Howell, P.L.S. No. 1433
Authorized Agent of Topographic Land Surveyors

Ovintiv

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

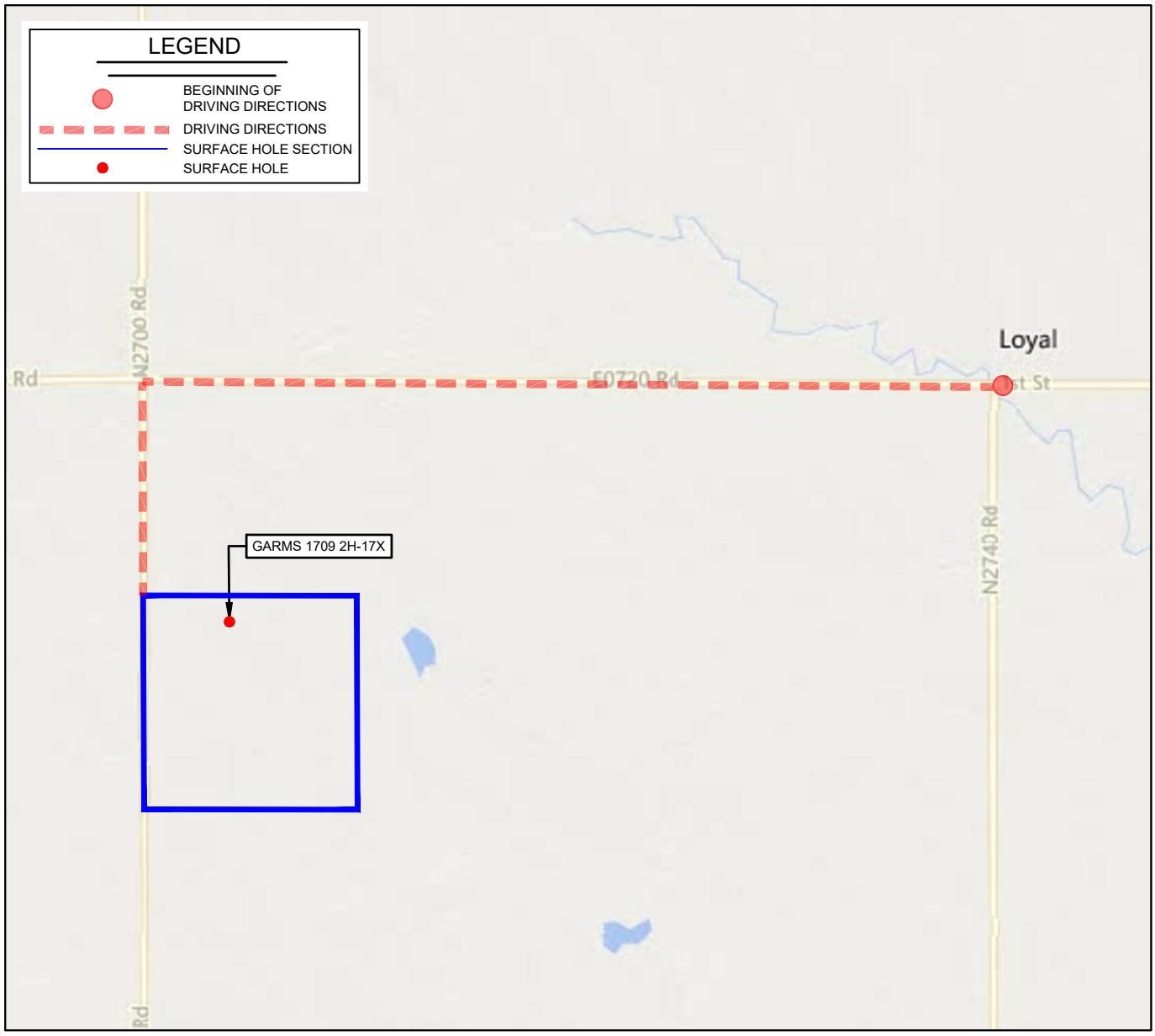
LEASE NAME & WELL NO. GARMS 1709 2H-17X

SECTION 17 TWP 17N RGE 9W MERIDIAN I.M.
COUNTY KINGFISHER STATE OKLAHOMA
DESCRIPTION 655' FNL & 2135' FWL

GARMS 1709 2H-17X	REVISION: INT	DATE
DATE: 08/05/2021		
FILE:LO_GARMS_1709_2H-17X		
DRAWN BY: KEU		
SHEET : 1 OF 1		

NOTES:
1. ORIGINAL DOCUMENT SIZE: 8.5" X 14"
2. ALL BEARINGS SHOWN HEREON ARE GRID OKLAHOMA COORDINATE SYSTEM OF 1983 NORTH ZONE ACCORDING TO THE RESULT OF STATIC GPS OBSERVATION PROCESSED THROUGH OPUS ON THE CONTROL POINT OCCUPIED WHILE MEASURING SAID LINES. OPUS RESULTS ARE CORRELATED TO OKLAHOMA COORDINATE SYSTEM THROUGH NORTH ZONE AND THE NORTH AMERICAN VERTICAL DATUM OF 1988.
3. OKLAHOMA COORDINATE SYSTEM OF 1927 AND NATIONAL GEOGRAPHIC VERTICAL DATUM OF 1929 INFORMATION CONVERTED FROM OKLAHOMA COORDINATE SYSTEM OF 1983 AND NORTH AMERICAN VERTICAL DATUM OF 1988.
4. CERTIFICATION IS MADE ONLY TO THE LOCATION OF THIS EASEMENT/LOCATION, IN RELATION TO THE EVIDENCE FOUND DURING A FIELD SURVEY, MADE ON THE GROUND, UNDER MY SUPERVISION, AND USING DOCUMENTATION PROVIDED BY OVINTIV MID-CONTINENT INC. ONLY UTILITIES/EASEMENTS THAT WERE VISIBLE ON THE DATE OF THIS SURVEY, WITHIN/ADJOINING THIS EASEMENT/LOCATION, HAVE BEEN LOCATED AS SHOWN HEREON OF WHICH I HAVE KNOWLEDGE. THIS CERTIFICATION IS LIMITED TO THOSE PERSONS OR ENTITIES SHOWN ON THE FACE OF THIS PLAT AND IS NON-TRANSFERABLE, AND MADE FOR THIS TRANSACTION ONLY.
5. LANDING POINT, BOTTOM HOLE, AND DRILL PATH INFORMATION PROVIDED BY OPERATOR AS SHOWN AND ARE NOT SURVEYED LOCATIONS.
6. THE INFORMATION SHOWN HEREIN IS FOR CONSTRUCTION PURPOSES ONLY

VICINITY MAP



LEASE NAME & WELL NO. GARMS 1709 2H-17X

SECTION 17 TWP 17N RGE 9W MERIDIAN I.M.
COUNTY KINGFISHER STATE OKLAHOMA
DESCRIPTION 655' FNL & 2135' FWL
DISTANCE & DIRECTION
FROM LOYAL, OK GO ±4.0 MI. WEST ON E0720 RD, THEN ±1.0 MI. SOUTH ON N2700 RD TO THE NORTHWEST CORNER OF SECTION 17-T17N-R9W.

THIS EASEMENT/SERVITUDE LOCATION SHOWN HEREON HAS BEEN SURVEYED ON THE GROUND UNDER MY SUPERVISION AND PREPARED ACCORDING TO THE EVIDENCE FOUND AT THE TIME OF SURVEY, AND DATA PROVIDED BY OVINTIV MID-CONTINENT INC.. THIS CERTIFICATION IS MADE AND LIMITED TO THOSE PERSONS OR ENTITIES SHOWN ON THE FACE OF THIS PLAT AND IS NON-TRANSFERABLE. THIS SURVEY IS CERTIFIED FOR THIS TRANSACTION ONLY.

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 1983, U.S. SURVEY FEET AND THE NORTH AMERICAN VERTICAL DATUM OF 1988.

SCALE: 1" = 4000'

0' 2000' 4000'

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