

API NUMBER: 103 24774

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

Approval Date: 09/08/2021
Expiration Date: 03/08/2023

Straight Hole Oil & Gas

PERMIT TO DRILL

WELL LOCATION: Section: 20 Township: 22N Range: 2W County: NOBLE

SPOT LOCATION: ☐ NW ☐ NE ☐ SW ☐ SE FEET FROM QUARTER: FROM SOUTH FROM EAST
SECTION LINES: 1072 1895

Lease Name: JF Well No: 2 Well will be 1072 feet from nearest unit or lease boundary.
Operator Name: MACKELLAR INC Telephone: 4058482877; 4058482877 OTC/OCC Number: 1345 0

MACKELLAR INC
PO BOX 18298
OKLAHOMA CITY, OK 73154-0298

JOE MEYERS
14675 W CRESCENT DOVER ROAD
CRESCENT OK 73028

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

Name	Code	Depth
1 MISENER	319MSNR	5064

Spacing Orders: 212377

Location Exception Orders: 720390

Increased Density Orders: 720371

Pending CD Numbers: No Pending

Working interest owners' notified: ***

Special Orders: No Special

Total Depth: 5300 Ground Elevation: 1064

Surface Casing: 360

Depth to base of Treatable Water-Bearing FM: 310

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: 21-37693
H. (Other) CLOSED SYSTEM=STEEL PITS (REQUIRED - BLACK BEAR CREEK)

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 located in a Hydrologically Sensitive Area.

Category of Pit: C

Liner not required for Category: C

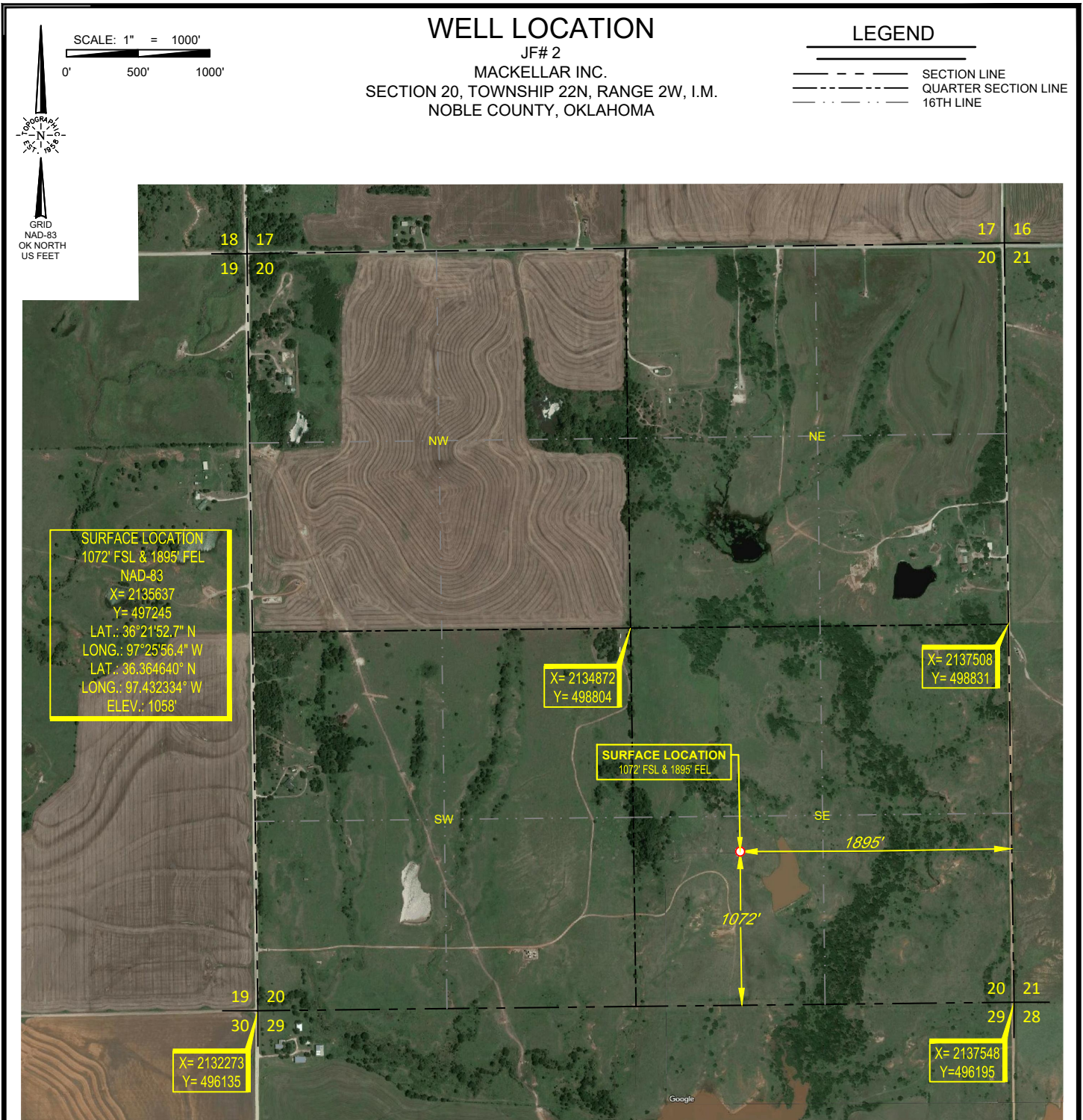
Pit Location is: BED AQUIFER

Pit Location Formation: WELLINGTON

NOTES:

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.

Category	Description
HYDRAULIC FRACTURING	<p>[6/25/2021 - GC2] - OCC 165:10-3-10 REQUIRES:</p> <p>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;</p> <p>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: OCCWEB.COM/OG/OGFORMS.HTML; AND,</p> <p>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</p>
INCREASED DENSITY - 720371	<p>[7/20/2021 - GB1] - SW4 SE4 20-22N-2W X212377 MSNR 1 WELL MACKELLAR, INC 9/1/21</p>
LOCATION EXCEPTION - 720390	<p>[9/7/2021 - GB1] - (F.O.) SW4 SE4 20-22N-2W X212377 MSNR SHL 248' FNL, 575' FEL OF SW4 SE4 20-22N-2W MACKELLAR, INC 9/2/21</p>
SPACING - 212377	<p>[7/20/2021 - GB1] - (40) 20-22N-2W EXT OTHERS EXT 183504 MSNR, OTHERS EST OTHERS</p>
WATERSHED STRUCTURE	<p>[6/25/2021 - GC2] - WELL WITHIN 1/2 MILE OF AN OKLAHOMA CONSERVATION COMMISSION WATERSHED STRUCTURE. CONTACT THE LOCAL CONSERVATION DISTRICT OFFICE AT (580) 336-2003 PRIOR TO DRILLING</p>



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

LEASE NAME & WELL NO. JF# 2

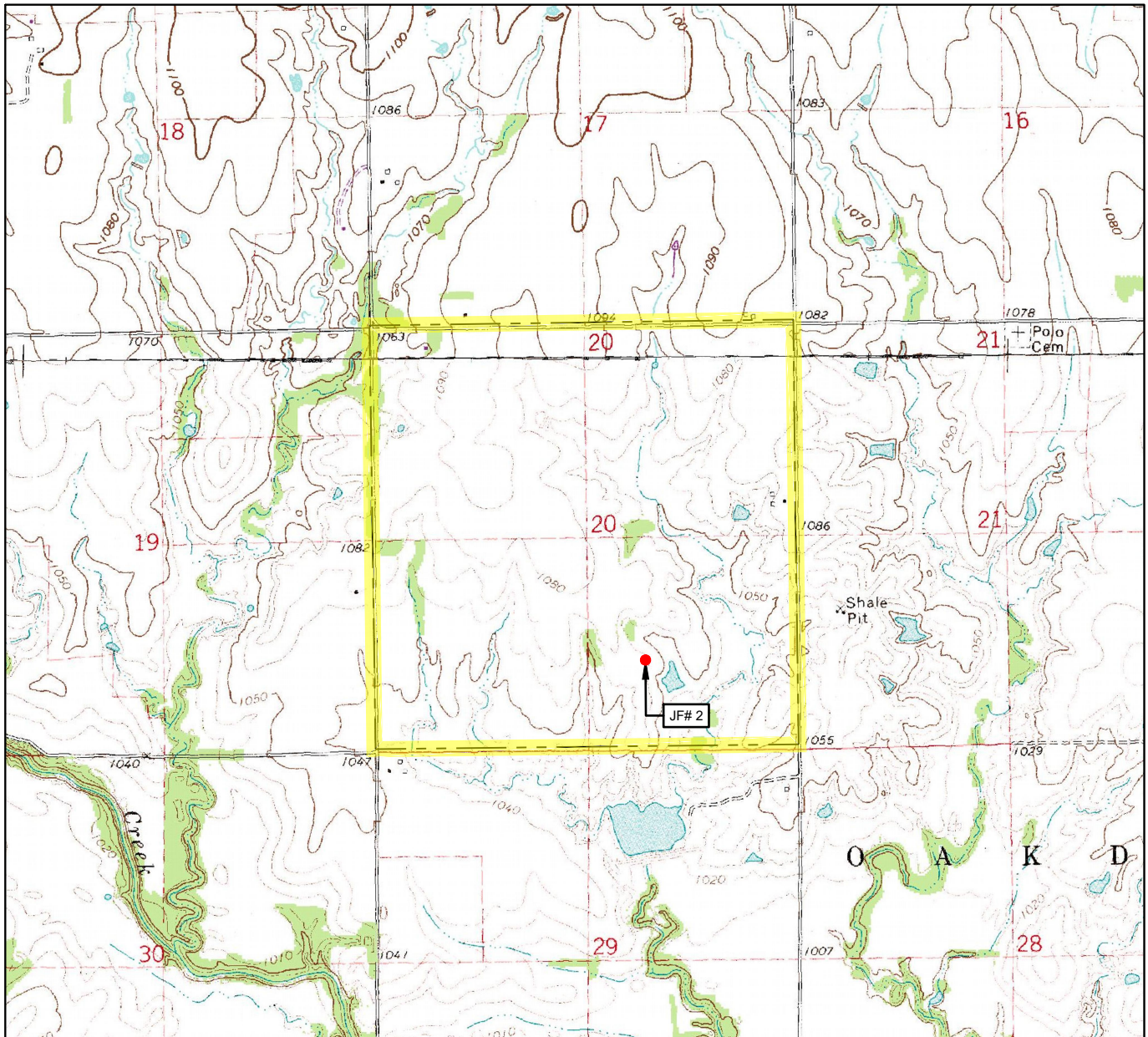
SECTION 20 TWP 22N RGE 2W MERIDIAN I.M.

COUNTY NOBLE STATE OKLAHOMA

DESCRIPTION 1072' FSL & 1895' FEL

JF# 2	REVISION:		NOTES:
	INT	DATE	
	KEU	07/26/2021	
DATE: 04/05/2021			1. ORIGINAL DOCUMENT SIZE: 8.5" X 14" 2. ALL BEARINGS SHOWN HEREON ARE GRID ACCORDING TO THE RESULTS OF STATIC GPS OBSERVATIONS PROCESSED THROUGH OPUS ON THE CONTROL POINT OCCUPIED WHILE MEASURING SAID LINES. OPUS RESULTS ARE CORRELATED TO OKLAHOMA, NORTH ZONE, NAD 83 - HORIZONTAL AND THE NORTH AMERICAN VERTICAL DATUM OF 1988. 3. 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 MACKELLAR 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. 4. THE INFORMATION SHOWN HEREIN IS FOR CONSTRUCTION PURPOSES ONLY
FILE:LO_JF_2_REV1			
DRAWN BY: KEU			
SHEET : 2 OF 2			

LOCATION & ELEVATION VERIFICATION MAP



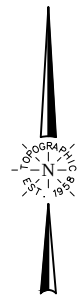
LEASE NAME & WELL NO. _____ JF# 2

SECTION 20 TWP 22N RGE 2W MERIDIAN I.M.

COUNTY NOBLE STATE OKLAHOMA

DESCRIPTION 1072' FSL & 1895' FEL

ELEVATION 1064'



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

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 MACKELLAR 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.

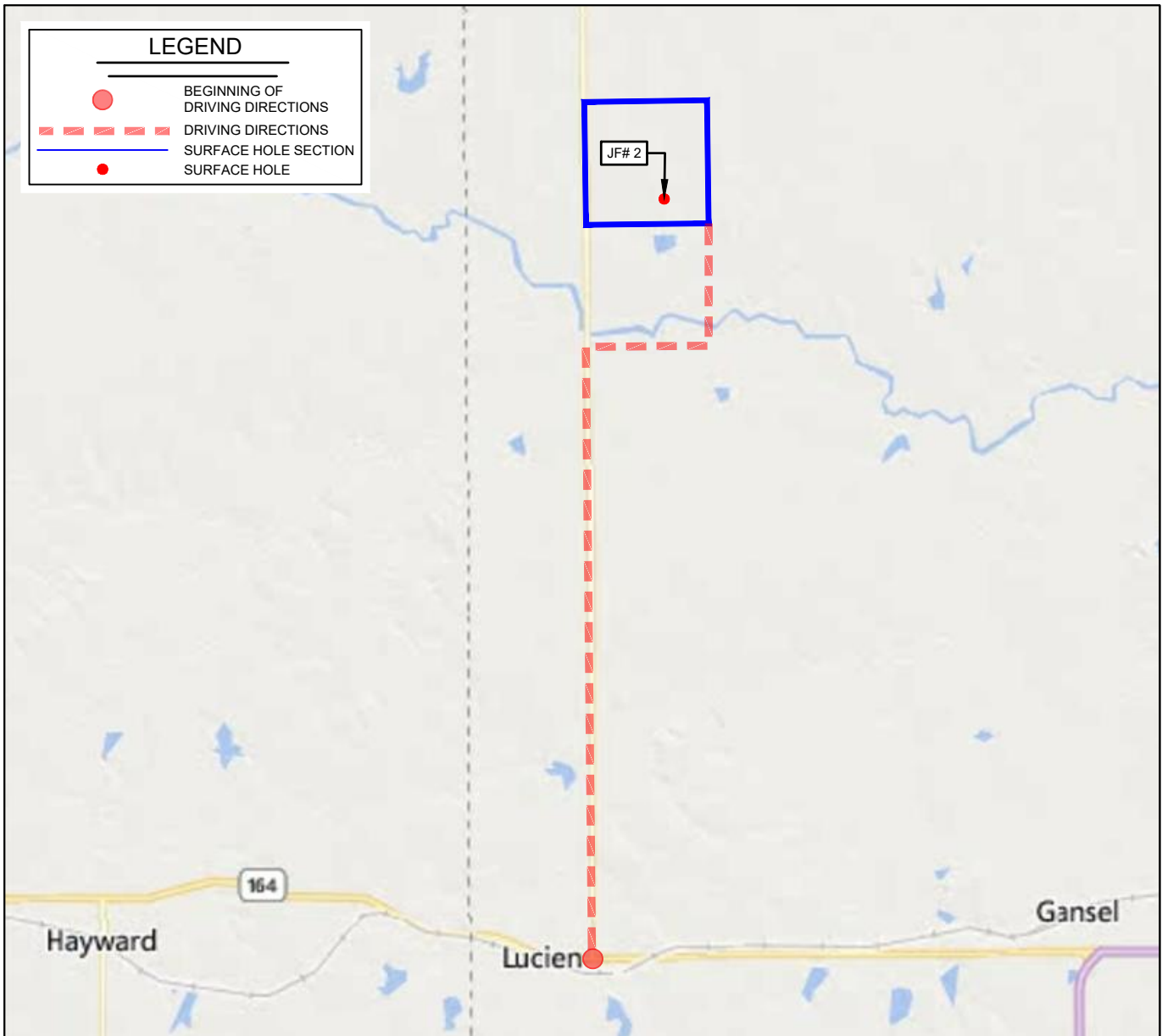
ALL BEARINGS, DISTANCES, AND COORDINATE VALUES CONTAINED HEREON ARE GRID BASED UPON THE OKLAHOMA STATE PLANE COORDINATE SYSTEM, NORTH ZONE OF THE NORTH AMERICAN DATUM 1983, U.S. SURVEY FEET AND THE NORTH AMERICAN VERTICAL DATUM OF 1988.



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

VICINITY MAP



LEASE NAME & WELL NO. _____ JF# 2

SECTION 20 TWP 22N RGE 2W MERIDIAN I.M.

COUNTY NOBLE STATE OKLAHOMA

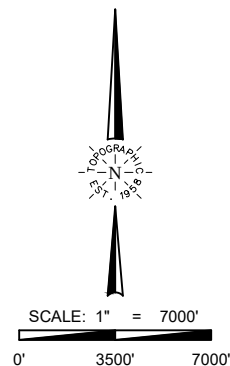
DESCRIPTION 1072' FSL & 1895' FEL

DISTANCE & DIRECTION

AT THE INTERSECTION OF E0510 ROAD AND OK-164 E, IN LUCIEN, OKLAHOMA, GO EAST FOR ± .5 MILES. TURN NORTH ON THE FIRST CROSS STREET ONTO S. CENTRAL STREET/N3120 ROAD FOR ± 5 MILES. TURN EAST ONTO E0460 ROAD FOR ± 1 MILE. TURN NORTH ONTO N3130 ROAD FOR ± 1 MILE TO THE SEC OF SECTION 20, T22N, R02W.

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