

API NUMBER: 019 26471 A

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

Approval Date: 02/18/2022
Expiration Date: 08/18/2023

Horizontal Hole Oil & Gas

Amend reason: AMEND SURFACE CASING DEPTH

AMEND PERMIT TO DRILL

WELL LOCATION: Section: 03 Township: 1S Range: 3W County: CARTER

SPOT LOCATION: ☐ NE ☐ NW ☐ NE ☐ NE FEET FROM QUARTER: FROM NORTH FROM EAST

SECTION LINES: 229 753

Lease Name: FLAMES 3-10-1S-3W Well No: WXH1 Well will be 229 feet from nearest unit or lease boundary.

Operator Name: BLACK MESA ENERGY LLC Telephone: 9189334454 OTC/OCC Number: 24018 0

BLACK MESA ENERGY LLC
401 S BOSTON AVE STE 450
TULSA, OK 74103-4045

ARNOLD W. JOHNSON & WYNEMA J. JOHNSON
3914 BASE LINE ROAD
RATLIFF CITY OK 73481

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

Name	Code	Depth
1 WOODFORD	319WDFD	7970

Spacing Orders: 706532

Location Exception Orders: No Exceptions

Increased Density Orders: No Density

Pending CD Numbers: No Pending

Working interest owners' notified: ***

Special Orders: No Special

Total Depth: 17860

Ground Elevation: 990

Surface Casing: 1500

Depth to base of Treatable Water-Bearing FM: 730

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: 22-38101

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 located in a Hydrologically Sensitive Area.

Category of Pit: C

Liner not required for Category: C

Pit Location is: BED AQUIFER

Pit Location Formation: GARBER

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: GARBER

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.

HORIZONTAL HOLE 1

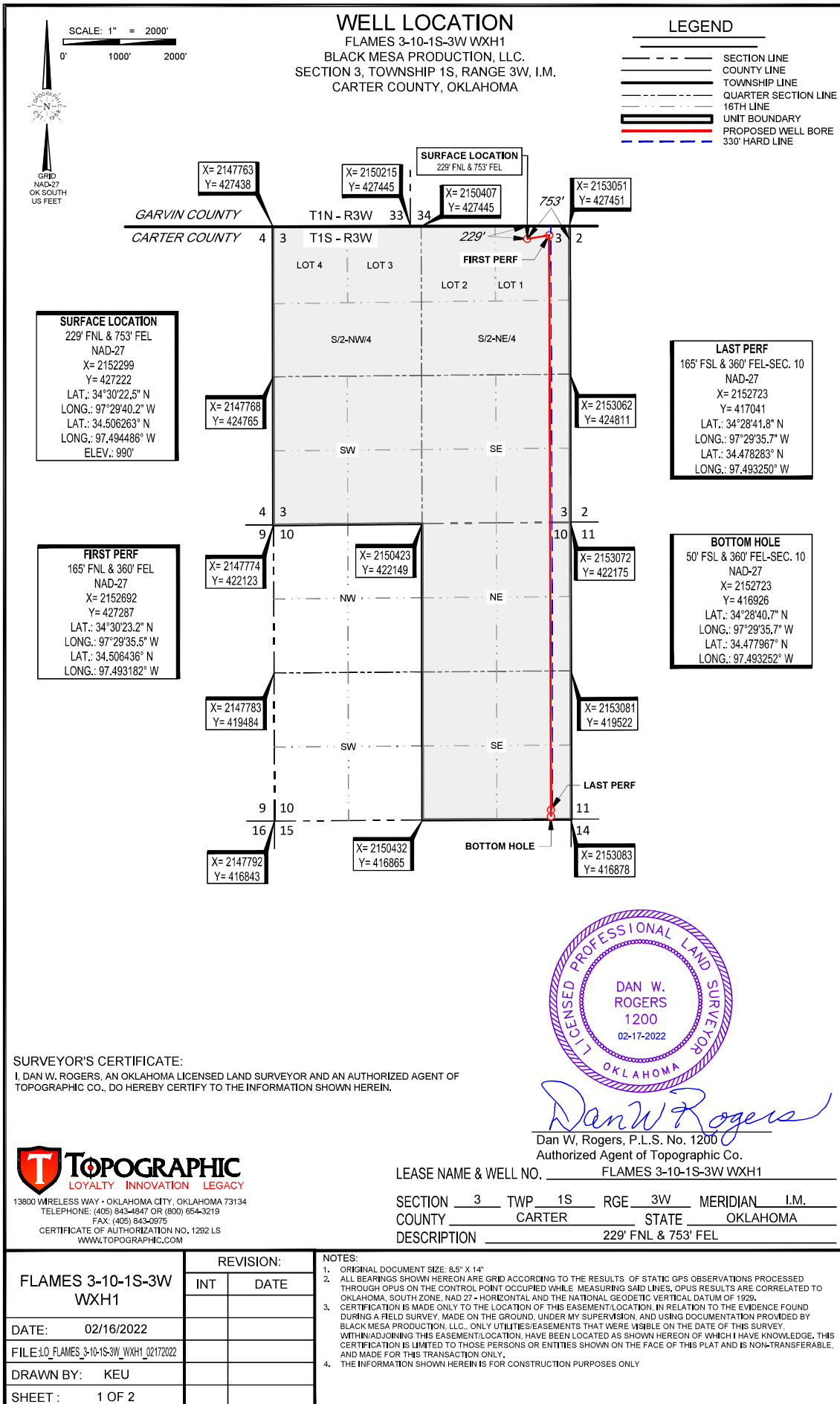
Section: 10 Township: 1S Range: 3W Meridian: IM Total Length: 10360
County: CARTER Measured Total Depth: 17860
Spot Location of End Point: SW SE SE SE True Vertical Depth: 9000
Feet From: **SOUTH** 1/4 Section Line: 50 End Point Location from
Feet From: **EAST** 1/4 Section Line: 360 Lease,Unit, or Property Line: 50

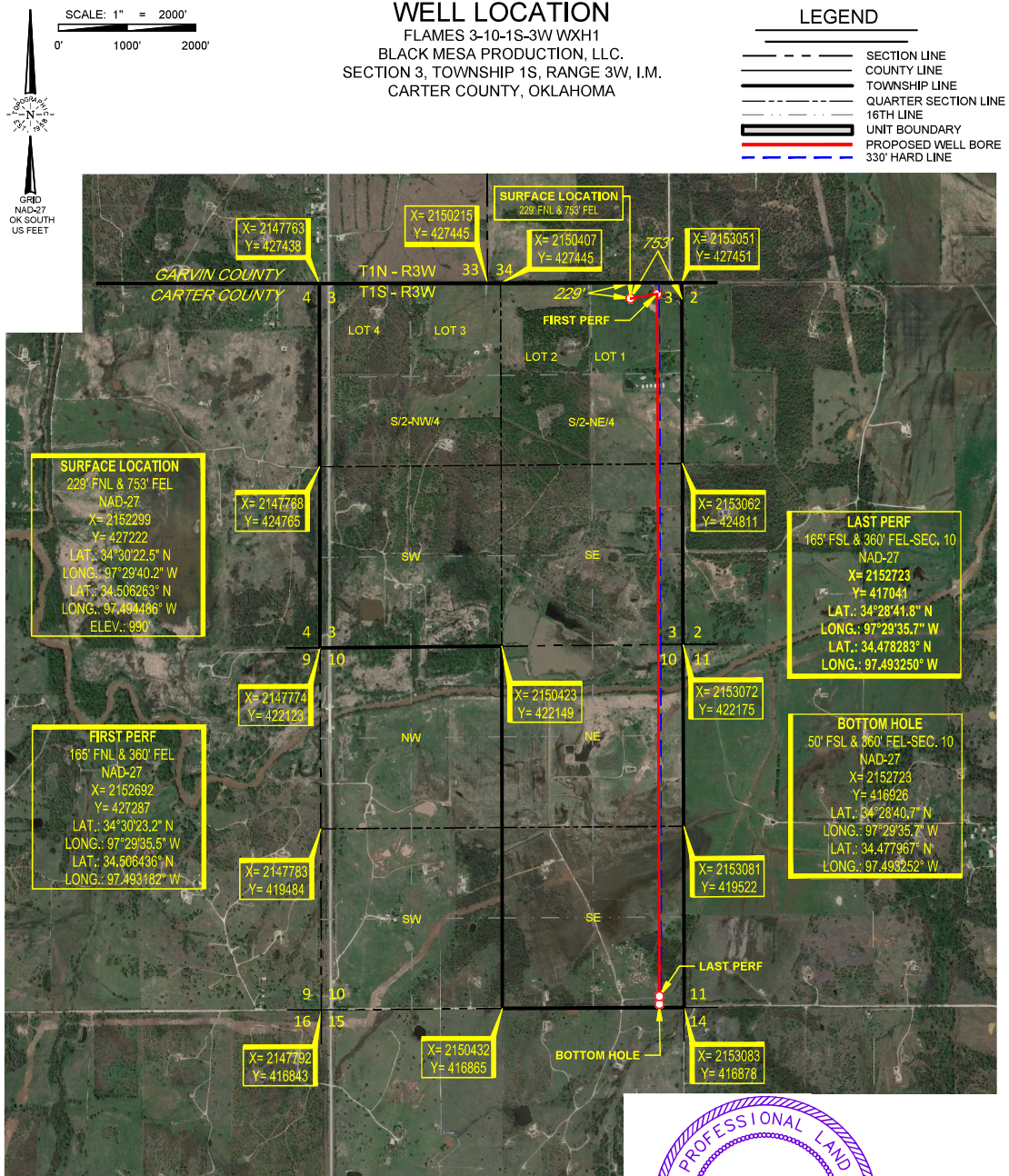
NOTES:

Category	Description
COMPLETION INTERVAL	[2/18/2022 - G56] - COMPL INT WILL BE NCT 165' FNL/FSL, NCT 330' FEL/FWL PER OPERATOR;
HYDRAULIC FRACTURING	<p>[2/18/2022 - 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: OCCEWEB.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>
MEMO	[2/18/2022 - GC2] - CLOSED SYSTEM=STEEL PITS PER OPERATOR REQUEST, OBM RETURNED TO VENDOR, CUTTINGS PERMITTED PER DISTRICT
SPACING - 706532	<p>[2/18/2022 - G56] - (960)(HOR)(IRR UNIT) 3 & E2 10-1S-3W EST WDFD POE TO BHL NLT 165' FNL/FSL, NLT 330' FEL/FWL (COEXIST WITH SP # 225864 NE4 10-1S-3W, # 318415 SE4 10-1S-3W)</p>

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.

019 26471 FLAMES 3-10-1S-3W WXH1





SURVEYOR'S CERTIFICATE:

I, DAN W. ROGERS, AN OKLAHOMA LICENSED LAND SURVEYOR AND AN AUTHORIZED AGENT OF TOPOGRAPHIC CO., DO HEREBY CERTIFY TO THE INFORMATION SHOWN HEREIN.



Dan W. Rogers
 Dan W. Rogers, P.L.S. No. 1200
 Authorized Agent of Topographic Co.



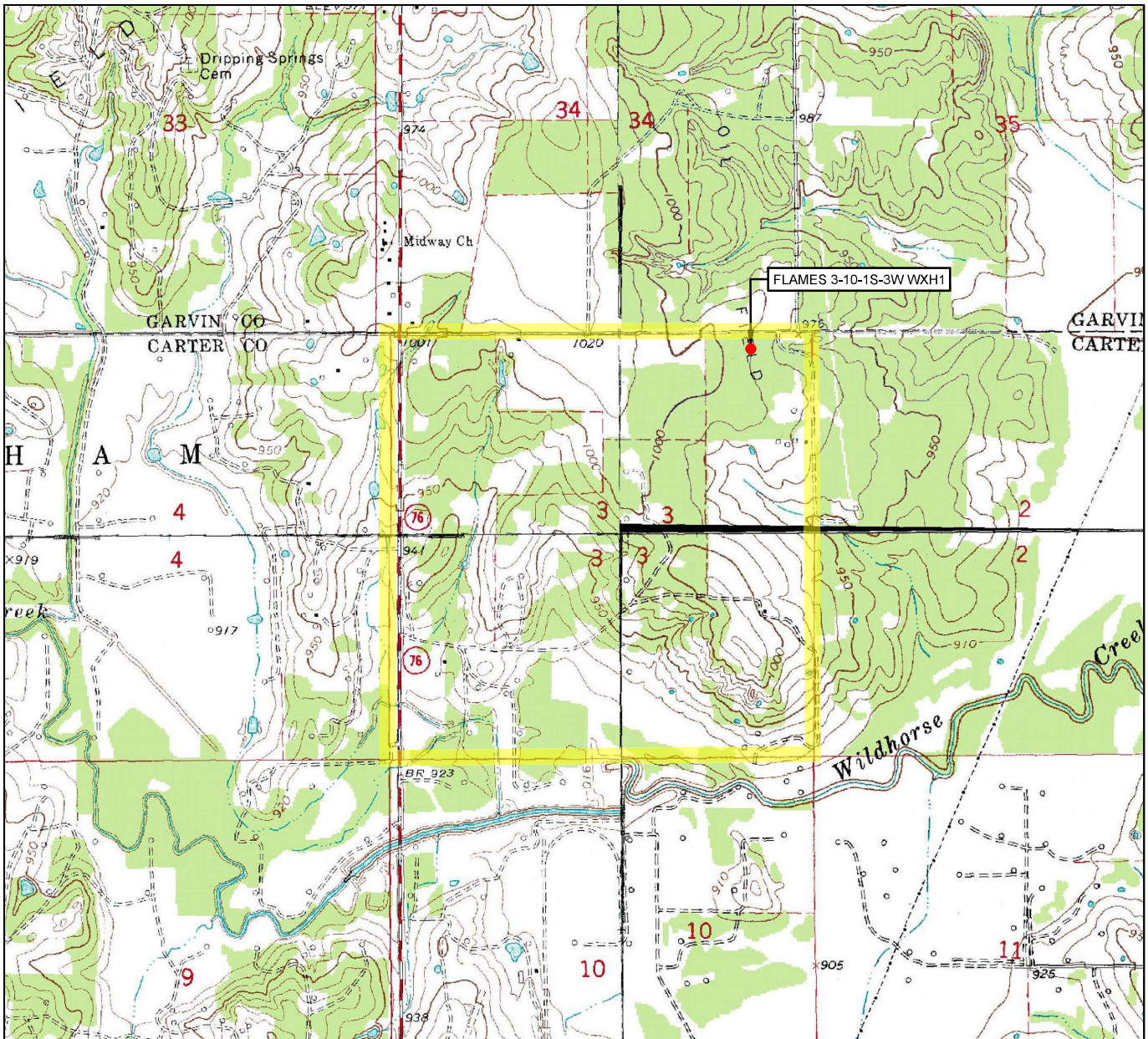
13800 WIRELESS WAY • OKLAHOMA CITY, OKLAHOMA 73134
 TELEPHONE: (405) 843-4847 OR (800) 654-3219
 FAX: (405) 843-0975
 CERTIFICATE OF AUTHORIZATION NO. 1292 LS
 WWW.TOPOGRAPHIC.COM

LEASE NAME & WELL NO. FLAMES 3-10-1S-3W WXH1

SECTION 3 TWP 1S RGE 3W MERIDIAN I.M.
 COUNTY CARTER STATE OKLAHOMA
 DESCRIPTION 229' FNL & 753' FEL

FLAMES 3-10-1S-3W WXH1	REVISION:		NOTES:
	INT	DATE	
DATE: 02/16/2022			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, SOUTH ZONE, NAD 27 - HORIZONTAL AND THE NATIONAL GEODETIC VERTICAL DATUM OF 1929. 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 BLACK MESA PRODUCTION, LLC., 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_FLAMES_3-10-1S-3W_WXH1_02172022			
DRAWN BY: KEU			
SHEET: 2 OF 2			

LOCATION & ELEVATION VERIFICATION MAP



LEASE NAME & WELL NO. FLAMES 3-10-1S-3W WXH1

SECTION 3 TWP 1S RGE 3W MERIDIAN I.M.

COUNTY CARTER STATE OKLAHOMA

DESCRIPTION 229' FNL & 753' FEL

ELEVATION 990'



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 BLACK MESA PRODUCTION, LLC.. 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, SOUTH ZONE OF THE NORTH AMERICAN DATUM 1927, U.S. SURVEY FEET AND THE NATIONAL GEODETIC VERTICAL DATUM OF 1929.

TOPOGRAPHIC
LOYALTY INNOVATION LEGACY

13800 WIRELESS WAY • OKLAHOMA CITY, OKLAHOMA 73134

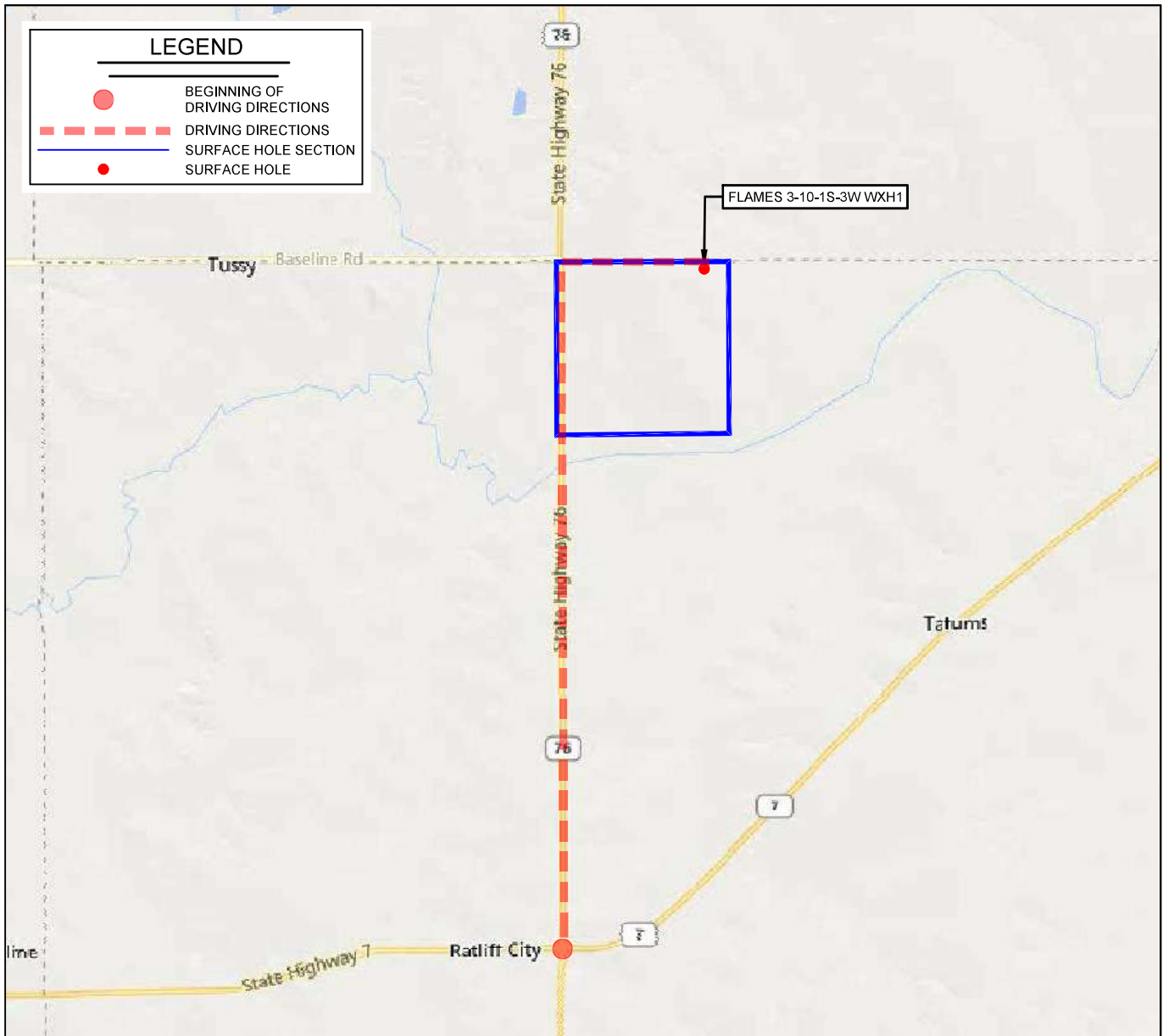
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VICINITY MAP



LEASE NAME & WELL NO. FLAMES 3-10-1S-3W WXH1

SECTION 3 TWP 1S RGE 3W MERIDIAN I.M.

COUNTY CARTER STATE OKLAHOMA

DESCRIPTION 229' FNL & 753' FEL

DISTANCE & DIRECTION

FROM THE JCT OF HWY76 AND E MAIN ST IN RATLIFF CITY, TAKE
HWY76 NORTH FOR 4 MILES, TURN EAST ON BASELINE ROAD,
FOLLOW BASELINE ROAD FOR 3/4 OF A MILE TO LOCATION.

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 BLACK MESA PRODUCTION, LLC.. 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.

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SCALE: 1" = 5000'
0' 2500' 5000'

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