

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

API NUMBER: 019 26437

Approval Date: 04/14/2021

Expiration Date: 10/14/2022

Horizontal Hole Oil & Gas

PERMIT TO DRILL

WELL LOCATION: Section: 13 Township: 1S Range: 3W County: CARTER

SPOT LOCATION: SE SE SW NW FEET FROM QUARTER: FROM **NORTH** FROM **WEST**
SECTION LINES: **2382** **1025**

Lease Name: **JEWELL 13-12-1S-3W** Well No: **SXH1** Well will be **1025** 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

JEWELL VARNER TRUST C/O ROSE PAYNE TRUSTEE
7412 APPLING OAKS DRIVE
CORDOVA TN 38016

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

Name	Code	Depth
1 SYCAMORE	352SCMR	7440

Spacing Orders: 694306

Location Exception Orders: No Exceptions

Increased Density Orders: No Density Orders

Pending CD Numbers: No Pending

Working interest owners' notified: ***

Special Orders: No Special Orders

Total Depth: 14755

Ground Elevation: 1003

Surface Casing: 1090

Depth to base of Treatable Water-Bearing FM: 1000

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: 21-37555
H. (Other)	CLOSED SYSTEM=STEEL PITS PER OPERATOR REQUEST

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

HORIZONTAL HOLE 1

Section: 12 Township: 1S Range: 3W Meridian: IM

Total Length: 7315

County: CARTER

Measured Total Depth: 14755

Spot Location of End Point: NE NE NW NW

True Vertical Depth: 7440

Feet From: **NORTH** 1/4 Section Line: 165

End Point Location from
Lease, Unit, or Property Line: 165

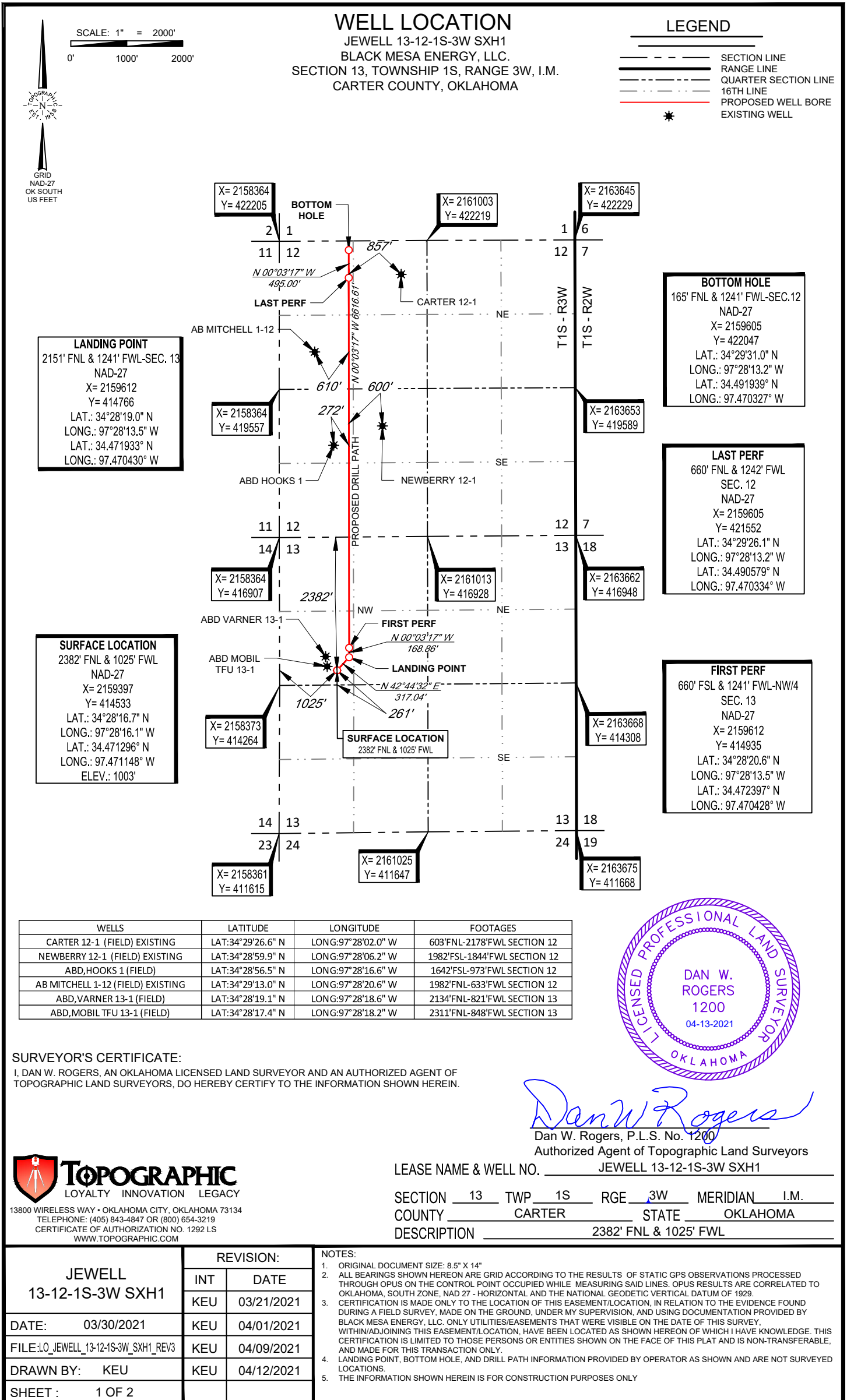
Feet From: **WEST** 1/4 Section Line: 1241

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>[4/7/2021 - 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: 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>
SPACING - 694306	<p>[4/8/2021 - GC2] - (880)(IRR UNIT)(HOR) W2, SE4, AND S2 NE4 12 AND N2 13-1S-3W EST SCMR, OTHERS COMPL. INT. (SCMR, OTHER) NCT 660' FB (COEXIST SP. ORDER 102072 SCMR, OTHER 12-1S-3W; 104887 SCMR, OTHER NW4 13-1S-3W)</p>

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

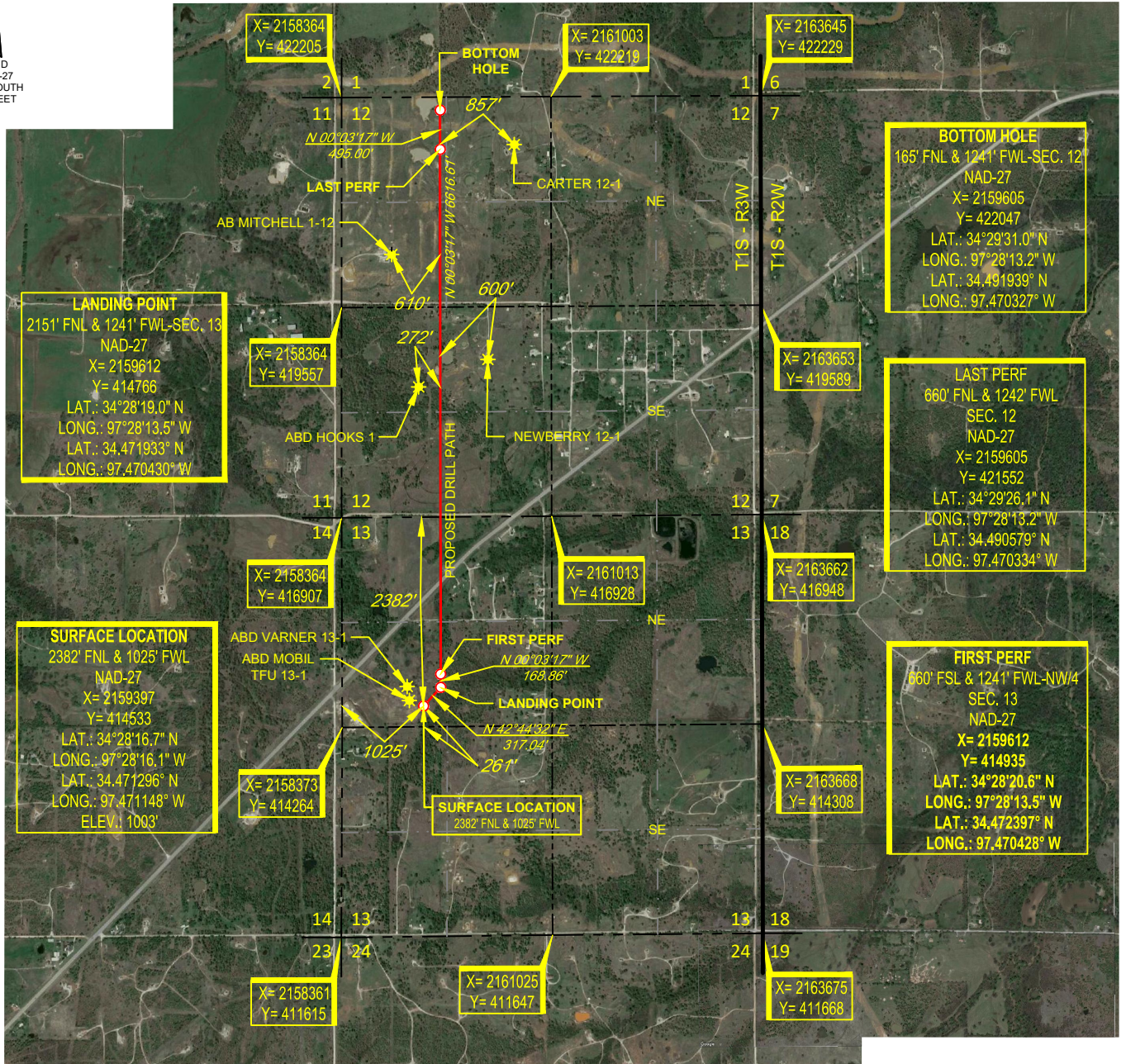


WELL LOCATION

JEWELL 13-12-1S-3W SXH1
BLACK MESA ENERGY, LLC.
SECTION 13, TOWNSHIP 1S, RANGE 3W, I.M.
CARTER COUNTY, OKLAHOMA

LEGEND

- SECTION LINE
- RANGE LINE
- QUARTER SECTION LINE
- 16TH LINE
- PROPOSED WELL BORE
- * EXISTING WELL



WELLS	LATITUDE	LONGITUDE	FOOTAGES
CARTER 12-1 (FIELD) EXISTING	LAT:34°29'26.6" N	LONG:97°28'02.0" W	603'FNL-2178'FWL SECTION 12
NEWBERRY 12-1 (FIELD) EXISTING	LAT:34°28'59.9" N	LONG:97°28'06.2" W	1982'FSL-1844'FWL SECTION 12
ABD,HOOKS 1 (FIELD)	LAT:34°28'56.5" N	LONG:97°28'16.6" W	1642'FSL-973'FWL SECTION 12
AB MITCHELL 1-12 (FIELD) EXISTING	LAT:34°29'13.0" N	LONG:97°28'20.6" W	1982'FNL-633'FWL SECTION 12
ABD,VARNER 13-1 (FIELD)	LAT:34°28'19.1" N	LONG:97°28'18.6" W	2134'FNL-821'FWL SECTION 13
ABD,MOBILTFU 13-1 (FIELD)	LAT:34°28'17.4" N	LONG:97°28'18.2" W	2311'FNL-848'FWL SECTION 13



SURVEYOR'S CERTIFICATE:

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

Dan W. Rogers
Dan W. Rogers, P.L.S. No. 1200

Authorized Agent of Topographic Land Surveyors



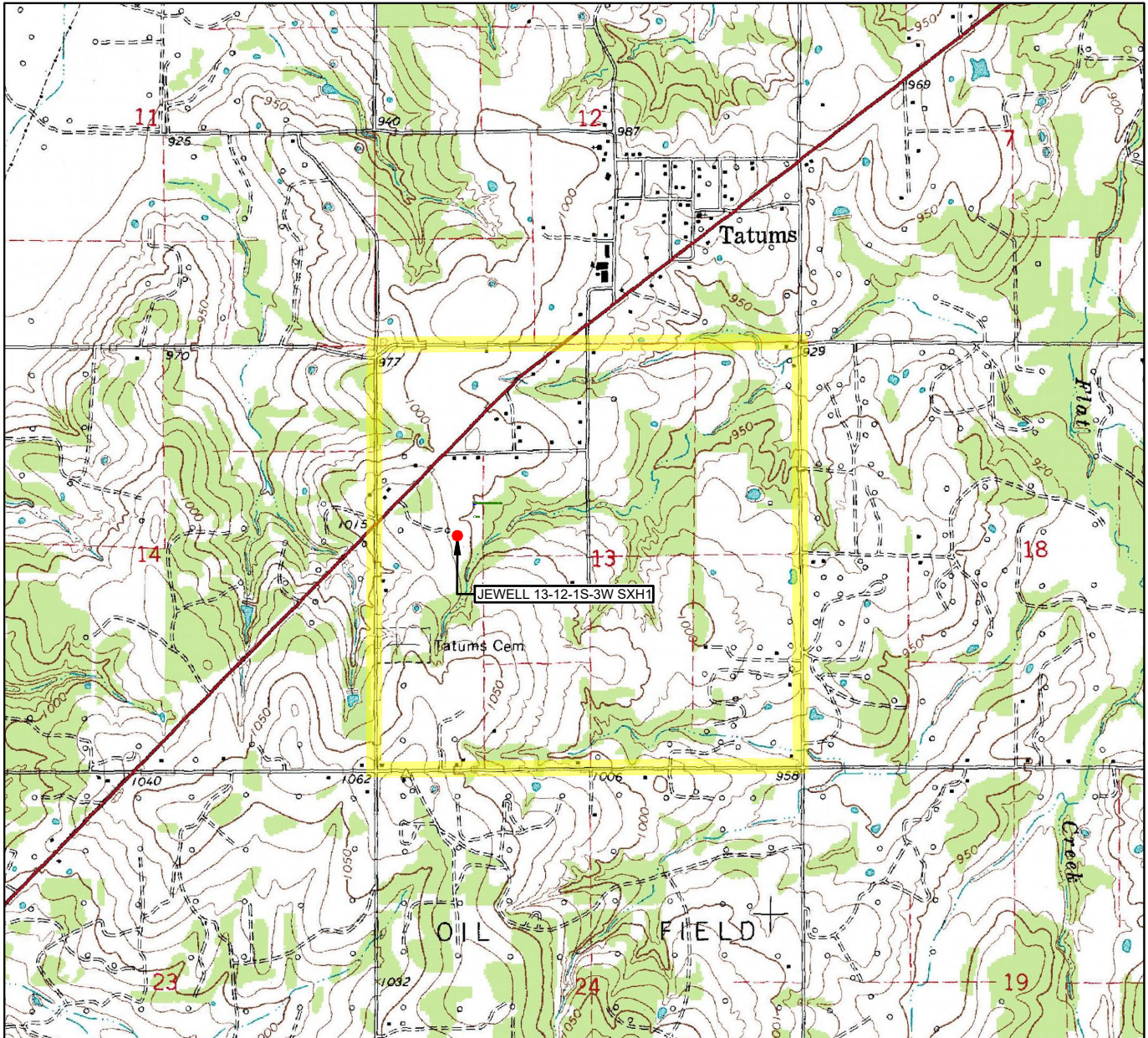
13800 WIRELESS WAY • OKLAHOMA CITY, OKLAHOMA 73134
TELEPHONE: (405) 843-4847 OR (800) 654-3219
CERTIFICATE OF AUTHORIZATION NO. 1292 LS
WWW.TOPOGRAPHIC.COM

LEASE NAME & WELL NO. JEWELL 13-12-1S-3W SXH1
SECTION 13 TWP 1S RGE 3W MERIDIAN I.M.
COUNTY CARTER STATE OKLAHOMA
DESCRIPTION 2382' FNL & 1025' FWL

JEWELL 13-12-1S-3W SXH1	REVISION:	
	INT	DATE
DATE: 03/30/2021	KEU	03/31/2021
FILE:LO_JEWELL_13-12-1S-3W_SXH1_REV3	KEU	04/09/2021
DRAWN BY: KEU	KEU	04/12/2021
SHEET: 2 OF 2		

- NOTES:**
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 ENERGY, 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. LANDING POINT, BOTTOM HOLE, AND DRILL PATH INFORMATION PROVIDED BY OPERATOR AS SHOWN AND ARE NOT SURVEYED LOCATIONS.
 5. THE INFORMATION SHOWN HEREIN IS FOR CONSTRUCTION PURPOSES ONLY

LOCATION & ELEVATION VERIFICATION MAP



LEASE NAME & WELL NO. JEWELL 13-12-1S-3W SXH1

SECTION 13 TWP 1S RGE 3W MERIDIAN I.M.

COUNTY CARTER STATE OKLAHOMA

DESCRIPTION 2382' FNL & 1025' FWL

ELEVATION 1003'



SCALE: 1" = 2000'

0' 1000' 2000'

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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



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SECTION 13 TWP 1S RGE 3W MERIDIAN 1.M.

COUNTY CARTER STATE OKLAHOMA

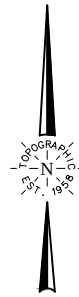
DESCRIPTION 2382' FNL & 1025' FWL

DISTANCE & DIRECTION

FROM THE JCT OF HWY 76 AND 7 IN RATLIFF CITY, OK, GO EAST ON
HWY 7 FOR 2.4 MILES TO THE APPROXIMATE WEST QUARTER
CORNER OF SECTION 13 T1S R3W.

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