API NUMBER: 017 25632 A

Multi Unit Oil & Gas

Amend reason: AMEND SHL, BHL, TD, TVD, CHANGE WELL NAME, UPDATE OCC ORDERS

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

Approval Date: 09/30/2020
Expiration Date: 03/30/2022

AMEND PERMIT TO DRILL

WELL LOCATION: Section: 25 Township: 11N Range: 8W County: CANADIAN

SPOT LOCATION: SE SW SW SE FEET FROM QUARTER: FROM **SOUTH** FROM **EAST**

SECTION LINES: **220** **2095**

Lease Name: **CAREL** **Well No:** **4H-2524X** **Well will be** **220** **feet from nearest unit or lease boundary.**

Operator Name: **CIMAREX ENERGY CO** Telephone: 9185851100 OTC/OCC Number: 21194 0

CIMAREX ENERGY CO
202 S CHEYENNE AVE STE 1000
TULSA, OK 74103-3001

R & K CAREL PROPERTIES LLC
1201 59TH STREET SW
UNION CITY OK 73090

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

	Name	Code	Depth
1	WOODFORD	319WDFD	11330

Spacing Orders: 662553, 631118, 702984, 714195

Location Exception Orders: 702988, 714199, 702985, 714196

Increased Density Orders: 702350, 702351, 714200, 714201

Pending CD Numbers: No Pending

Working interest owners' notified: ***

Special Orders: No Special Orders

Total Depth: 21840 Ground Elevation: 1282 **Surface Casing: 1500** Depth to base of Treatable Water-Bearing FM: 380

Deep surface casing has been approved

Under Federal Jurisdiction: No
Fresh Water Supply Well Drilled: No
Surface Water used to Drill: No

Approved Method for disposal of Drilling Fluids:

D. One time land application -- (REQUIRES PERMIT)	PERMIT NO: 20-37413
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: ALLUVIAL
Pit Location Formation: ALLUVIUM

MULTI UNIT HOLE 1

Section: 24 Township: 11N Range: 8W Meridian: IM
County: CANADIAN
Spot Location of End Point: NE NE NW NE
Feet From: **NORTH** 1/4 Section Line: 150
Feet From: **EAST** 1/4 Section Line: 1436

Total Length: 9800
Measured Total Depth: 21840
True Vertical Depth: 11480
End Point Location from Lease,Unit, or Property Line: 150

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
DEEP SURFACE CASING	9/23/2020 - 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 – 702988 (201904135)	[9/30/2020 - GB6] - (I.O.) 24 & 25 11N-8W X165:10-3-28(C)(2)(B) WDFD (CAREL 4H-2524X) MAY BE CLOSER THAN 600' TO SWEENEY 8-24H (API# 017-25210) AND/OR STRAKA 1H-36X (API# 017-24696) AND/OR PROPOSED CAREL 1H-2524X, CAREL 2H-2524X, CAREL 3H-2524X, CAREL 5H-2524X, CAREL 6H-2524X NO OPER. NAMED 09/30/2019
EXCEPTION TO RULE – 714199 (201904135)	[9/30/2020 - GB6] - EXTENSION OF ORDER # 702988 UNTIL 09/30/2021
HYDRAULIC FRACTURING	[11/12/2020 - 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 – 702350	[9/30/2020 - GB6] - 24-11N-8W X662553 WDFD 6 WELLS CIMAREX ENERGY CO. 09/17/2019
INCREASED DENSITY – 702351	[9/30/2020 - GB6] - 25-11N-8W X631118 WDFD 6 WELLS CIMAREX ENERGY CO. 09/17/2019
INCREASED DENSITY – 714200	[9/30/2020 - GB6] - EXTENSION OF ORDER # 702350 UNTIL 09/17/2021
INCREASED DENSITY – 714201	[9/30/2020 - GB6] - EXTENSION OF ORDER # 702351 UNTIL 09/17/2021
LOCATION EXCEPTION – 702985 (201904132)	[9/30/2020 - GB6] - (I.O.) 24 & 25 -11N-8W X662553 WDFD 24-11N-8W X631118 WDFD 25-11N-8W COMPL. INT. (25-11N-8W) NCT 150' FSL, NCT 0' FNL, NCT 1100' FEL COMPL. INT. (24-11N-8W) NCT 0' FSL, NCT 150' FNL, NCT 1100' FEL CIMAREX ENERGY CO. 09/30/2019
LOCATION EXCEPTION – 714196 (201904132)	[9/30/2020 - GB6] - EXTENSION OF ORDER # 702985 UNTIL 09/30/2021
SPACING – 631118	[9/30/2020 - GB6] - (640)(HOR) 25-11N-8W VAC OTHER VAC 144210 MSSLM 25-11N-8W VAC 258100 CSTR 25-11N-8W EST MSSP EXT 595379 WDFD COMPL. INT. (MSSP) NLT 660' FB COMPL. INT. (WDFD) NLT 165' FSL, NLT 165' FNL, NLT 330' FEL, NLT 330' FWL
SPACING – 662553	[9/30/2020 - GB6] - (640)(HOR) 24-11N-8W EXT 646343 MSSP, WDFD COMPL. INT. (MSSP) NLT 660' FB COMPL. INT. (WDFD) NLT 165' FSL, NLT 165' FNL, NLT 330' FEL, NLT 330' FWL (COEXIST SP. ORDER# 144210 MSSLM, SP. ORDER# 258100 CSTR, SP. ORDER# 380183 WDFD)

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 – 702984 (201904131)	[9/30/2020 - GB6] - (I.O.) 24 & 25 -11N-8W EST MULTIUNIT HORIZONTAL WELL X 662553 WDFD 24-11N-8W X631118 WDFD 25-11N-8W 50% 24-11N-8W 50% 25-11N-8W CIMAREX ENERGY CO. 09/30/2019
SPACING – 714195 (201904131)	[9/30/2020 - GB6] - EXTENSION OF ORDER # 702984 UNTIL 09/30/2021

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

CAREL 4H-2524X
CIMAREX ENERGY CO.
SECTION 25, TOWNSHIP 11N, RANGE 8W, I.M.
CANADIAN COUNTY, OKLAHOMA

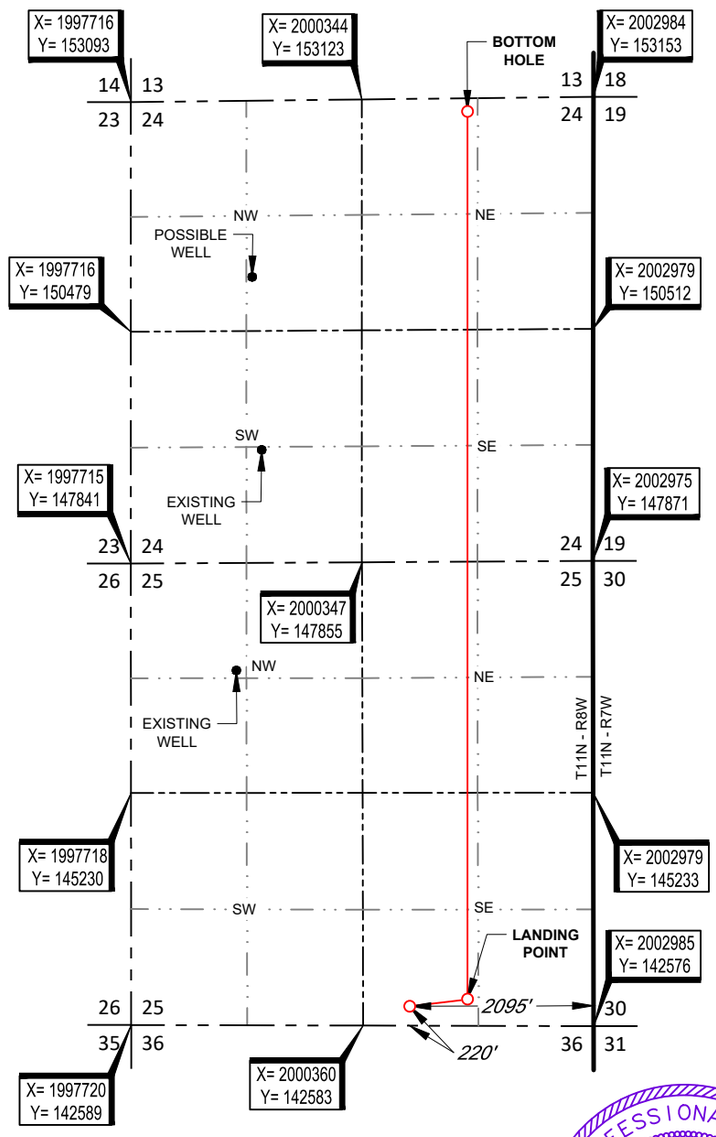
LEGEND

- SECTION LINE
- QUARTER SECTION LINE
- PROPOSED WELL BORE
- TOWNSHIP/RANGE LINE

GRID
NAD-27
OK NORTH
US FEET

SCALE: 1" = 2000'

0' 1000' 2000'



BOTTOM HOLE
150' FNL & 1436' FEL
NAD-27
X= 2001547
Y= 152987
LAT.: 35°25'13.0" N
LONG.: 97°59'41.3" W
LAT.: 35.420280° N
LONG.: 97.994807° W

SURFACE LOCATION
220' FSL & 2095' FEL
NAD-27
X= 2000889
Y= 142801
LAT.: 35°23'32.3" N
LONG.: 97°59'49.3" W
LAT.: 35.392298° N
LONG.: 97.997016° W
ELEV: 1282' (NGVD29)

LANDING POINT
300' FSL & 1436' FEL
NAD-27
X= 2001548
Y= 142880
LAT.: 35°23'33.0" N
LONG.: 97°59'41.3" W
LAT.: 35.392513° N
LONG.: 97.994806° W

CIMAREX

LICENSED PROFESSIONAL LAND SURVEYOR
THOMAS L. HOWELL
1433
11-05-20
OKLAHOMA

SURVEYOR'S CERTIFICATE:
I, TOM 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

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

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. CAREL 4H-2524X

SECTION 25 TWP 11N RGE 8W MERIDIAN I.M.
COUNTY CANADIAN STATE OKLAHOMA
DESCRIPTION 220' FSL & 2095' FEL

CAREL 4H-2524X	REVISION:	
	KEU	11/4/2020
DATE: 08/27/20		
FILE: LO_CAREL_4H-2524X_NAD27_REV1		
DRAWN BY: KEU		
SHEET : 1 OF 6		

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, NORTH 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 CIMAREX ENERGY CO.. 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

O:\SURVEY\CIMAREX_ENERGY_CO\CAREL_3H_4H_5H_6H_PAD\FINAL_PRODUCTS\CAREL_4H_REV1\LO_CAREL_4H-2524X_NAD27_REV1.DWG 11/5/2020 3:43:08 PM tyler rogers