

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

API NUMBER: 017 25209

Approval Date: 04/11/2018

Expiration Date: 10/11/2018

Horizontal Hole Oil & Gas

PERMIT TO DRILL

WELL LOCATION: Sec: 36 Twp: 11N Rge: 8W

County: CANADIAN

SPOT LOCATION: NW NW NW NW

FEET FROM QUARTER: FROM NORTH FROM WEST

SECTION LINES: 240 275

Lease Name: CAREL

Well No: 1H-2524X

Well will be 240 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

SCHIEBER FAMILY FARMS, LLC.
5225 S. HWY 81
UNION CITY OK 73090

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

	Name	Depth	Name	Depth
1	MISSISSIPPIAN	10320	6	
2	WOODFORD	11330	7	
3			8	
4			9	
5			10	

Spacing Orders: 662553
631118

Location Exception Orders:

Increased Density Orders:

Pending CD Numbers: 201800580
201800577
201800597
201800598

Special Orders:

Total Depth: 22005

Ground Elevation: 1281

Surface Casing: 1500

Depth to base of Treatable Water-Bearing FM: 370

Under Federal Jurisdiction: No

Fresh Water Supply Well Drilled: No

Surface Water used to Drill: No

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

Approved Method for disposal of Drilling Fluids:

D. One time land application -- (REQUIRES PERMIT)

PERMIT NO: 17-33072

H. CLOSED SYSTEM=STEEL PITS PER OPERATOR REQUEST

This permit does not address the right of entry or settlement of surface damages.

The duration of this permit is SIX 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

Sec 24 Twp 11N Rge 8W County CANADIAN

Spot Location of End Point: NE NW NW NW

Feet From: NORTH 1/4 Section Line: 150

Feet From: WEST 1/4 Section Line: 400

Depth of Deviation: 11196

Radius of Turn: 478

Direction: 5

Total Length: 10059

Measured Total Depth: 22005

True Vertical Depth: 11544

End Point Location from Lease,
Unit, or Property Line: 150

Notes:

Category	Description
DEEP SURFACE CASING	4/2/2018 - G71 - APPROVED; NOTIFY OCC FIELD INSPECTOR IMMEDIATELY OF ANY LOSS OF CIRCULATION OR FAILURE TO CIRCULATE CEMENT TO SURFACE ON ANY CONDUCTOR OR SURFACE CASING
HYDRAULIC FRACTURING	4/2/2018 - G71 - OCC 165:10-3-10 REQUIRES: 1) PRIOR TO COMMENCEMENT OF HYDRAULIC FRACTURING OPERATIONS FOR HORIZONTAL WELLS, NOTICE GIVEN FIVE BUSINESS DAYS IN ADVANCE TO OFFSET OPERATORS WITH WELLS COMPLETED IN THE SAME COMMON SOURCE OF SUPPLY WITHIN 1/2 MILE; 2) WITH NOTICE ALSO GIVEN 48 HOURS IN ADVANCE OF HYDRAULIC FRACTURING ALL WELLS TO BOTH THE OCC CENTRAL OFFICE AND LOCAL DISTRICT OFFICES, USING THE "FRAC NOTICE FORM" FOUND AT THE FOLLOWING LINK: OCCEWEB.COM/OG/OGFORMS.HTML ; AND, 3) THE CHEMICAL DISCLOSURE OF HYDRAULIC FRACTURING INGREDIENTS FOR ALL WELLS TO BE REPORTED TO FRACFOCUS WITHIN 60 DAYS AFTER THE CONCLUSION THE HYDRAULIC FRACTURING OPERATIONS, USING THE FOLLOWING LINK: FRACFOCUS.ORG
PENDING CD – 201800577	4/6/2018 - G58 - (I.O.) 24 & 25-11N-8W EST MULTIUNIT HORIZONTAL WELL X662553 MSSP, WDFD (24-11N-8W) X631118 MSSP, WDFD (25-11N-8W) (MSSP IS ADJACENT COMMON SOURCE OF SUPPLY TO WDFD) 50% 24-11N-8W 50% 25-11N-8W NO OP. NAMED REC 3/12/2018 (DUNN)
PENDING CD – 201800580	4/6/2018 - G58 - (I.O.) 24 & 25-11N-8W X662553 MSSP, WDFD (24-11N-8W) X631118 MSSP, WDFD (25-11N-8W) COMPL. INT. (25-11N-8W) NCT 0' FNL, NCT 150' FSL, NCT 330' FWL COMPL. INT. (24-11N-8W) NCT 0' FSL, NCT 150' FNL, NCT 330' FWL NO OP. NAMED REC 3/12/2018 (DUNN)
PENDING CD – 201800598	4/6/2018 - G58 - 25-11N-8W X631118 WDFD 7 WELLS NO OP. NAMED HEARING 6/11/2018
SPACING – 631118	4/6/2018 - G58 - (640)(HOR) 25-11N-8W VAC 144210 MSSLM VAC 258100 CSTR EXT 595379 WDFD EST MSSP COMPL. INT. (MSSP) NLT 660' FB COMPL. INT. (WDFD) NLT 165' FNL & FSL, 330' FEL & FWL

This permit does not address the right of entry or settlement of surface damages.
The duration of this permit is SIX 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.

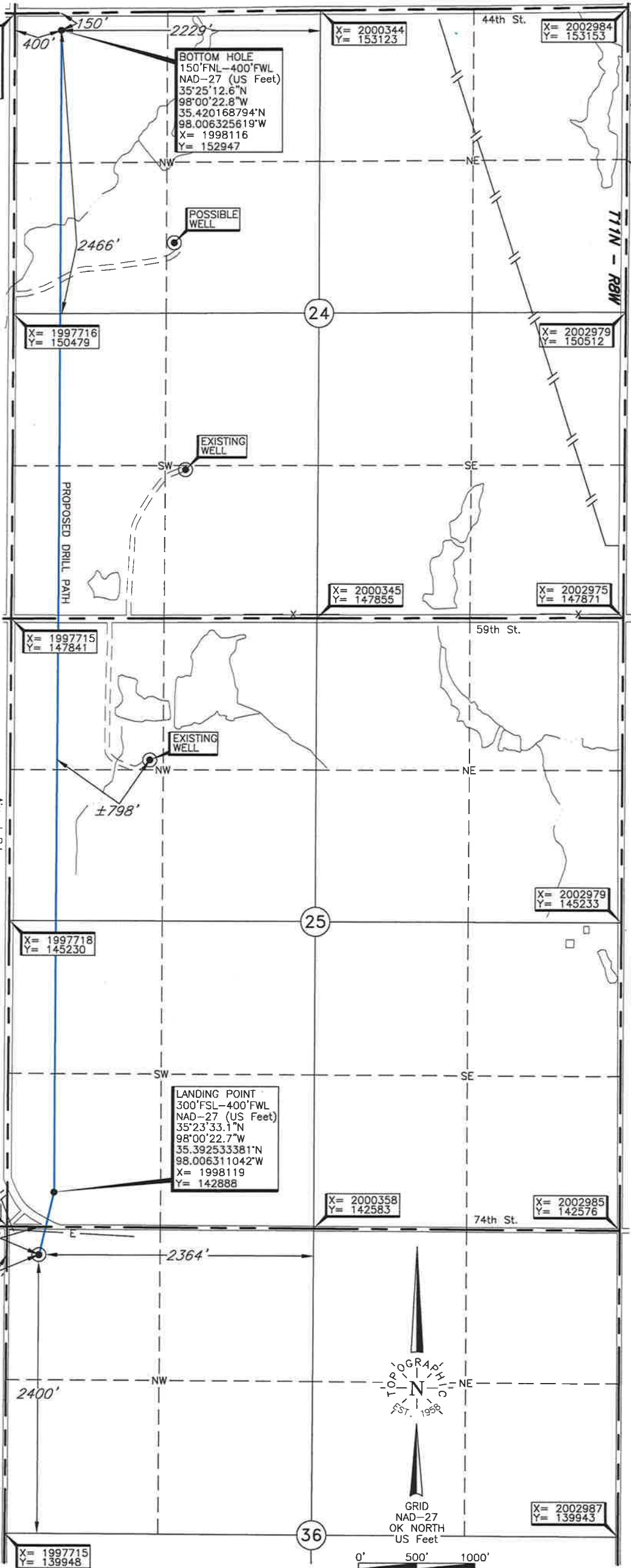
Category

Description

SPACING – 662553

4/6/2018 - G58 - (640)(HOR) 24-11N-8W
EXT 646343 MSSP, WDFD
COMPL. INT. (MSSP) NLT 660' FB
COMPL. INT. (WDFD) NLT 165' FNL & FSL, 330' FEL & FWL
(COEXIST SP. ORDER 144210 MSSLM, SP ORDER 258100 CSTR, SP. ORDER 380183 WDFD)

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LANDING POINT, BOTTOM HOLE, AND DRILL PATH INFORMATION PROVIDED BY OPERATOR LISTED, NOT SURVEYED.

ELEVATION:
1281' Gr. at Stake NGVD29

NOTE:
The information shown herein is for construction purposes ONLY.

Operator: CIMAREX ENERGY CO.
 Lease Name: CAREL
 Topography & Vegetation Loc. fell in cotton field, ±200' South of pipeline
 Good Drill Site? Yes
 Reference Stakes or Alternate Location Stakes Set None
 Best Accessibility to Location From North off county road.
 Distance & Direction From Union City, go West ±4 miles to the NW Cor. of Sec. 36-T11N-8W.

Well No.: 1H-2524X
 DATUM: NAD-27
 LAT: 35°23'27.8"N
 LONG: 98°00'24.2"W
 LAT: 35.391050522°N
 LONG: 98.006731154°W
 STATE PLANE
 COORDINATES: (US Feet)
 ZONE: OK NORTH
 X: 1997994
 Y: 142348

This information was gathered with a GPS receiver with ±1 foot Horiz./Vert. accuracy.

Date of Drawing: Mar. 14, 2018
 Invoice # 290625A Date Staked: July 25, 2017

CERTIFICATE:

I, Thomas L. Howell an Oklahoma Licensed Land Surveyor and an authorized agent of Topographic Land Surveyors of Oklahoma, do hereby certify to the information shown herein.

Oklahoma Lic. No. 1433

