

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

API NUMBER: 017 25210

Approval Date: 04/11/2018  
Expiration Date: 10/11/2018

Horizontal Hole Oil & Gas

PERMIT TO DRILL

WELL LOCATION: Sec: 24 Twp: 11N Rge: 8W

County: CANADIAN

SPOT LOCATION:  SE  SE  SE  SE

FEET FROM QUARTER: FROM SOUTH FROM EAST

SECTION LINES: 240 220

Lease Name: SWEENEY

Well No: 8-24H

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

OMA BELLE AKERS TRUST  
BOX 452  
BLANCHARD OK 73010

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

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

Spacing Orders: 662553

Location Exception Orders:

Increased Density Orders: 676143

Pending CD Numbers: 201800595

Special Orders:

Total Depth: 16044

Ground Elevation: 1342

**Surface Casing: 1500**

Depth to base of Treatable Water-Bearing FM: 420

Under Federal Jurisdiction: No

Fresh Water Supply Well Drilled: No

Surface Water used to Drill: No

PIT 1 INFORMATION

Approved Method for disposal of Drilling Fluids:

Type of Pit System: CLOSED Closed System Means Steel Pits

Type of Mud System: WATER BASED

Chlorides Max: 10000 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 not located in a Hydrologically Sensitive Area.

Category of Pit: C

Liner not required for Category: C

Pit Location is NON HSA

Pit Location Formation: DOG CREEK

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

PERMIT NO: 17-33087

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: NW NE NE NE

Feet From: NORTH 1/4 Section Line: 150

Feet From: EAST 1/4 Section Line: 400

Depth of Deviation: 10841

Radius of Turn: 504

Direction: 358

Total Length: 4412

Measured Total Depth: 16044

True Vertical Depth: 11330

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

Notes:

Category

Description

DEEP SURFACE CASING

4/3/2018 - 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

4/3/2018 - 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](http://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](http://FRACFOCUS.ORG)

INCREASED DENSITY - 676143

4/11/2018 - G60 - 24-11N-8W  
X662553 WDFD  
6 WELLS  
NO OP. NAMED  
4/11/18

PENDING CD - 201800595

4/11/2018 - G60 - (I.O.) 24-11N-8W  
X662553 WDFD  
COMPL. INT. NCT 150' FSL, NCT 150' FNL, NCT 330' FEL  
NO OP. NAMED  
REC. 4/2/18 (DUNN)

SPACING - 662553

4/11/2018 - G60 - (640)(HOR) 24-11N-8W  
EXT 646343 WDFD  
COMPL. INT. NLT 165' FNL/FSL, NLT 330' FEL/FWL  
(COEXIST WITH SP. ORDER 380183 WDFD)

**TOPOGRAPHIC LAND SURVEYORS OF OKLAHOMA**

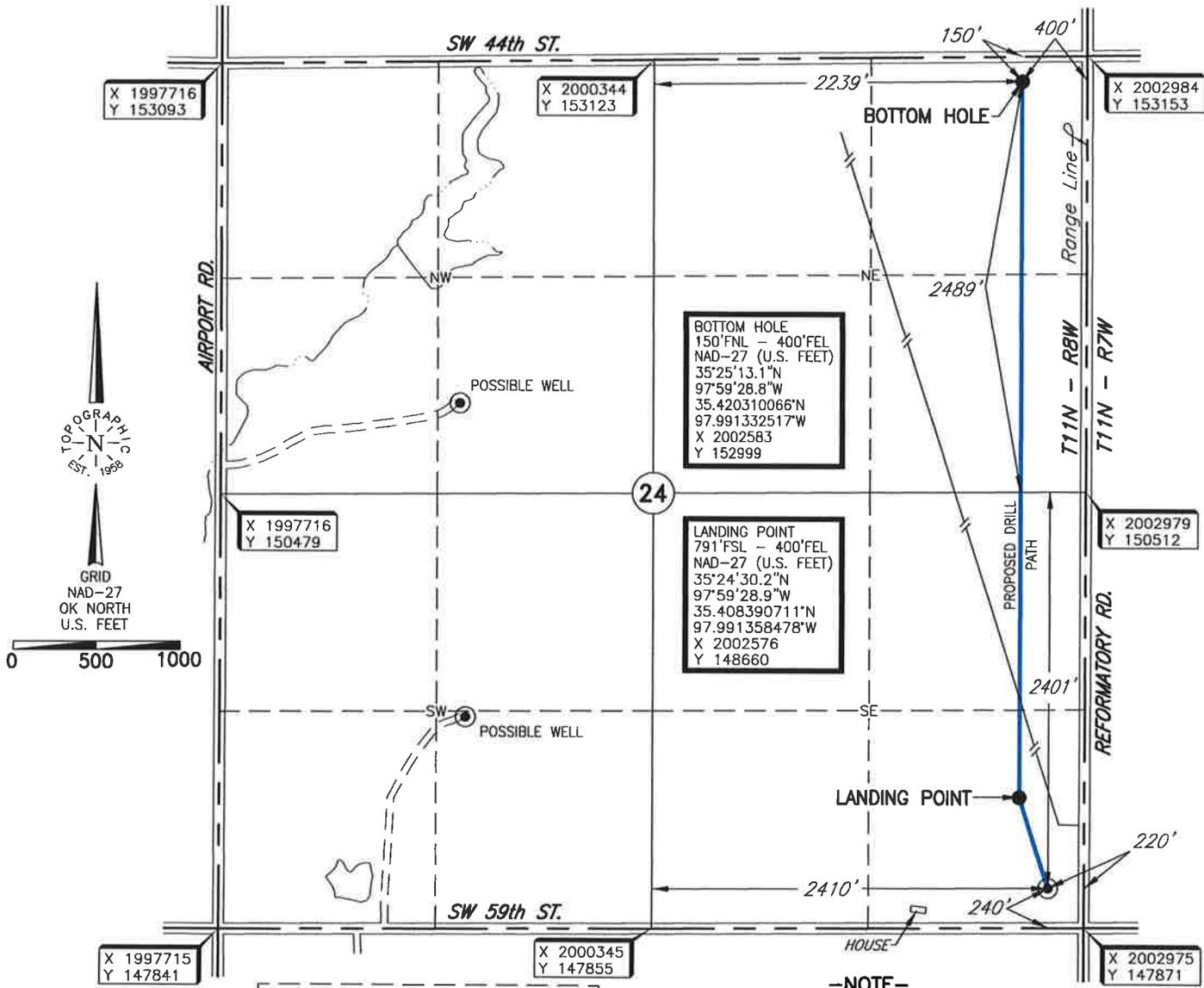
6709 NORTH CLASSEN BLVD., OKLA. CITY, OKLA. 73116 \* LOCAL (405) 843-4847 \* OUT OF STATE (800) 654-3219  
 Certificate of Authorization No. 1293 LS

3501725210

CANADIAN

County, Oklahoma

240'FSL - 220'FEL Section 24 Township 11N Range 8W I.M.



**BOTTOM HOLE**  
 150' FNL - 400' FEL  
 NAD-27 (U.S. FEET)  
 35°25'13.1"N  
 97°59'28.8"W  
 35.420310066°N  
 97.991332517°W  
 X 2002583  
 Y 152999

**LANDING POINT**  
 791' FSL - 400' FEL  
 NAD-27 (U.S. FEET)  
 35°24'30.2"N  
 97°59'28.9"W  
 35.408390711°N  
 97.991358478°W  
 X 2002576  
 Y 148660

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

**-NOTE-**  
 The information shown herein is for  
 construction purposes ONLY.

Operator: CIMAREX ENERGY CO.

Lease Name: SWEENEY

Well No.: 8-24H **ELEVATION:** 1342' Gr. at Stake

Topography & Vegetation Location fell in grass pasture. SE Corner of house 761' SW.

Good Drill Site? Yes Reference Stakes or Alternate Location Stakes Set None

Best Accessibility to Location From South off county road

Distance & Direction from Hwy Jct or Town From Union City, Ok., go ±3 miles West, then ±1 mile North to the SE corner of Section 24, T11N - R8W.

DATUM: NAD-27  
 LAT: 35°24'24.8"N  
 LONG: 97°59'26.7"W  
 LAT: 35.406879695°N  
 LONG: 97.990758296°W  
 STATE PLANE  
 COORDINATES: (US Feet)  
 ZONE: OK NORTH  
 X: 2002755  
 Y: 148110

Date of Drawing: August 2, 2017  
 Invoice # 279006B Date Staked: July 25, 2017 RKM

**CERTIFICATE:**  
 I, T. Wayne Fisch an Oklahoma Licensed Land Surveyor and an authorized agent of Topographic Land Surveyors of Oklahoma, do hereby certify to the information shown herein  
T. Wayne Fisch  
 Oklahoma Lic. No. 1378



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