

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

API NUMBER: 093 25072

Approval Date: 06/07/2017
Expiration Date: 12/07/2017

Horizontal Hole Oil & Gas

PERMIT TO DRILL

WELL LOCATION: Sec: 19 Twp: 20N Rge: 16W County: MAJOR
SPOT LOCATION: NE NW NE NE FEET FROM QUARTER: FROM NORTH FROM EAST
SECTION LINES: 200 920

Lease Name: COMBS Well No: 19-1H Well will be 200 feet from nearest unit or lease boundary.
Operator Name: COMANCHE EXPLORATION CO LLC Telephone: 4057555900 OTC/OCC Number: 20631 0

COMANCHE EXPLORATION CO LLC
6520 N WESTERN AVE STE 300
OKLAHOMA CITY, OK 73116-7334

STEPHEN J. & JO LYNN COMBS
ROUTE 1, BOX 12
CHESTER OK 73838

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

Name	Depth	Name	Depth
1	MISSISSIPPIAN	8200	6
2			7
3			8
4			9
5			10

Spacing Orders: 663460

Location Exception Orders: 664092

Increased Density Orders:

Pending CD Numbers:

Special Orders:

Total Depth: 13910

Ground Elevation: 1698

Surface Casing: 800

Depth to base of Treatable Water-Bearing FM: 570

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: 8000 Average: 5000

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: 17-32650

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 19 Twp 20N Rge 16W County MAJOR

Spot Location of End Point: SE SW SE SE

Feet From: SOUTH 1/4 Section Line: 135

Feet From: EAST 1/4 Section Line: 920

Depth of Deviation: 8040

Radius of Turn: 600

Direction: 180

Total Length: 4927

Measured Total Depth: 13910

True Vertical Depth: 9450

End Point Location from Lease,
Unit, or Property Line: 135

Notes:

Category

Description

HYDRAULIC FRACTURING

5/25/2017 - G71 - OCC 165:10-3-10 REQUIRES: 1) THE CHEMICAL DISCLOSURE OF HYDRAULIC FRACTURING INGREDIENTS FOR ALL WELLS BE REPORTED TO FRACFOCUS USING THE FOLLOWING LINK [HTTP://FRACFOCUS.ORG/](http://fracfocus.org/) WITH NOTICE GIVEN 48 HOURS IN ADVANCE OF FRACTURING TO THE LOCAL OCC DISTRICT OFFICE; AND, 2) PRIOR TO COMMENCEMENT OF FRACTURING OPERATIONS FOR HORIZONTAL WELLS, NOTICE ALSO GIVEN FIVE BUSINESS DAYS IN ADVANCE TO OFFSET OPERATORS WITH WELLS COMPLETED IN THE SAME COMMON SOURCE OF SUPPLY WITHIN 1/2 MILE

INTERMEDIATE CASING

5/25/2017 - G71 - DUE TO THE KNOWN POTENTIAL RISK OF ENCOUNTERING AN OVER-PRESSURED ZONE IN THE MORROW SERIES IN THIS AREA, THE TECHNICAL MANAGER RECOMMENDS SETTING AN INTERMEDIATE STRING OF CASING IMMEDIATELY ABOVE THE MORROW SERIES

LOCATION EXCEPTION - 664092

6/7/2017 - G60 - (I.O.) 19-20N-16W
X663460 MSSP
COMPL. INT. NCT 165' FNL, NCT 165' FSL, NCT 330' FEL
COMANCHE EXPLORATION CO. LLC.
5/30/17

SPACING - 663460

6/7/2017 - G60 - (640)(HOR) 19-20N-16W
EST MSSP, OTHERS
COMPL. INT. NCT 660' FB
(COEXIST WITH SP. ORDER 258710 CSTR; SP. ORDER 80607 MNMCO)

3509325072

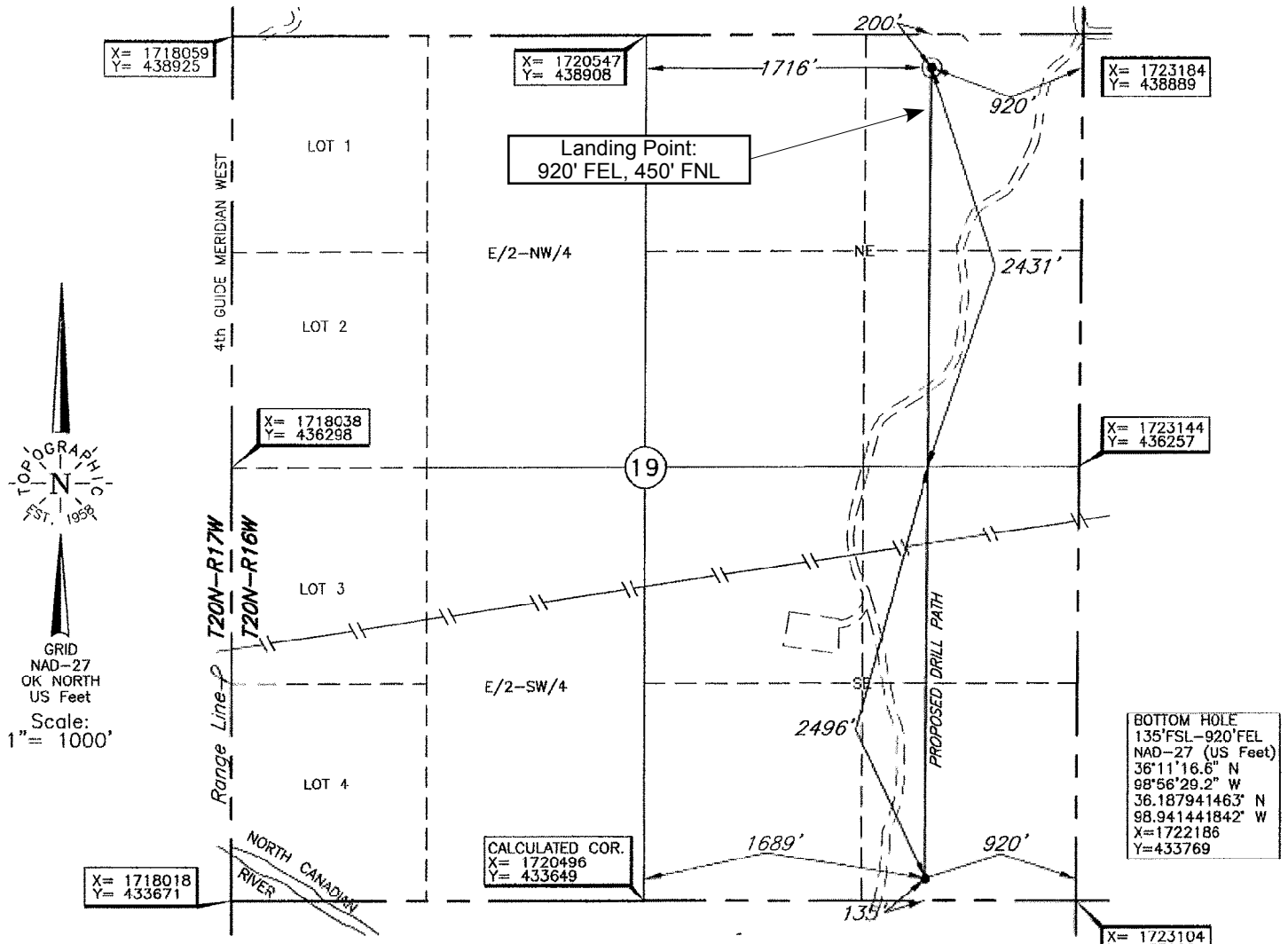
TOPOGRAPHIC LAND SURVEYORS OF OKLAHOMA

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

MAJOR

County, Oklahoma

200'FNL - 920'FEL Section 19 Township 20N Range 16W I.M.



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

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

Operator: COMANCHE EXPLORATION CO., LLC

Lease Name: COMBS

Well No.: 19-1H

ELEVATION:

1698' Gr. at Stake

Topography & Vegetation Loc. fell in sloped rolling brushy pasture with trees

Good Drill Site? Yes

Reference Stakes or Alternate Location Stakes Set None

Best Accessibility to Location From East off county road

Distance & Direction From Hwy Jct or Town From Chester, OK, go ±1.0 mi. South, then ±1.0 mi. West to the NE Cor. of Sec. 19-T20N-R16W

Date of Drawing: Oct. 24, 2016

Invoice # 266691 Date Staked: Oct. 20, 2016 AC

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

DATUM: NAD-27
LAT: 36°12'05.3"N
LONG: 98°56'28.9"W
LAT: 36.201477855° N
LONG: 98.941349031° W
STATE PLANE COORDINATES: (US Feet)
ZONE: OK NORTH
X: 1722261
Y: 438696

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

Thomas L. Howell
Oklahoma Lic. No. 1433

