

API NUMBER: 093 25227 A

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

Approval Date: 09/22/2021
Expiration Date: 03/22/2023

Horizontal Hole Oil & Gas

PERMIT TO DRILL

WELL LOCATION: Section: 21 Township: 20N Range: 15W County: MAJOR

SPOT LOCATION: ☐ SW ☐ NW ☐ SW ☐ SW FEET FROM QUARTER: FROM SOUTH FROM WEST
SECTION LINES: 850 200

Lease Name: HAWK Well No: 21-29-1JH 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

BRAZOS RESOURCES, LP BRM, LLC
6520 N WESTERN, SUITE 300
OKLAHOMA CITY OK 73116

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

Name	Code	Depth
1 MISSISSIPPIAN	359MSSP	8200

Spacing Orders: 610999

Location Exception Orders: 719193
700133
713310

Increased Density Orders: 719192
698252
713309

Pending CD Numbers: No Pending

Working interest owners' notified: ***

Special Orders: No Special

Total Depth: 15214 Ground Elevation: 1749

Surface Casing: 800

Depth to base of Treatable Water-Bearing FM: 410

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: 19-36408
H. (Other) SEE MEMO

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: AP/TE DEPOSIT

Pit Location Formation: TERRACE

PIT 2 INFORMATION

Type of Pit System: CLOSED Closed System Means Steel Pits

Type of Mud System: OIL BASED

Chlorides Max: 300000 Average: 200000

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: AP/TE DEPOSIT

Pit Location Formation: TERRACE

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.

HORIZONTAL HOLE 1

Section: 29 Township: 20N Range: 15W Meridian: IM Total Length: 5874
County: MAJOR Measured Total Depth: 15214
Spot Location of End Point: SW SE SE SE True Vertical Depth: 9340
Feet From: **SOUTH** 1/4 Section Line: 135 End Point Location from
Feet From: **EAST** 1/4 Section Line: 600 Lease, Unit, or Property Line: 135

NOTES:

Category	Description
DEEP SURFACE CASING	[9/17/2021 - 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
HYDRAULIC FRACTURING	[9/17/2021 - 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 - 698252 (201902603)	[9/22/2021 - GC2] - 29-20N-15W X610999 MSSP 2 WELLS COMANCHE EXPLORATION COMPANY, LLC 6-24-2019
INCREASED DENSITY - 713309 (201902603)	[9/22/2021 - GC2] - EXT OF TIME FOR ORDER 698252 UNTIL 6-24-2021
INCREASED DENSITY - 719192 (201902603)	[9/22/2021 - GC2] - EXT OF TIME FOR ORDER 698252/713309 UNTIL 6-24-2022
INTERMEDIATE CASING	[9/17/2021 - GC2] - 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 - 700133 (201902604)	[9/22/2021 - GC2] - (I.O.) 29-20N-15W X610999 MSSP, OTHER X165:10-3-28(C)(2)(B) MSSP MAY BE CLOSER THAN 600' TO THE ALTIC 29-20-1H AND THE GARD 1-28 COMPL. INT. NCT 165' FSL, NCT 165' FNL, NCT 560' FEL COMANCHE EXPLORATION COMPANY, LLC 8-1-2019
LOCATION EXCEPTION - 713310 (201902604)	[9/22/2021 - GC2] - EXT OF TIME FOR ORDER 700133 UNTIL 8-1-2021
LOCATION EXCEPTION - 719193 (201902604)	[9/22/2021 - GC2] - EXT OF TIME FOR ORDER 700133/713310 UNTIL 4-1-2022
MEMO	[9/17/2021 - GC2] - CLOSED SYSTEM=STEEL PITS PER OPERATOR REQUEST, OBM RETURNED TO VENDOR, CUTTINGS PERMITTED PER DISTRICT
SPACING - 610999	[9/22/2021 - GC2] - (640)(HOR) 29-20N-15W EST MSSP, OTHERS COMPL. INT. NCT 660' FUB (COEXIST CONCURRENTLY WITH PROFUCING NON-HORIZONTAL DRILLING AND SPACING UNITS.)

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093 25227 HAWK 21-29-1JH

MAJOR County, Oklahoma
850'FSL - 200'FWL Section 21 Township 20N Range 15W I.M.



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

Best Accessibility to Location From West off county road
Distance & Direction From Chester, OK, go ± 6.0 mi. East on US Hwy. 60, then ± 2.0 mi. South
to the SW Cor. of Sec. 21-120N-R15W

Good Drill Site? Yes

Reference Stakes or Alternate Location
Stakes Set None

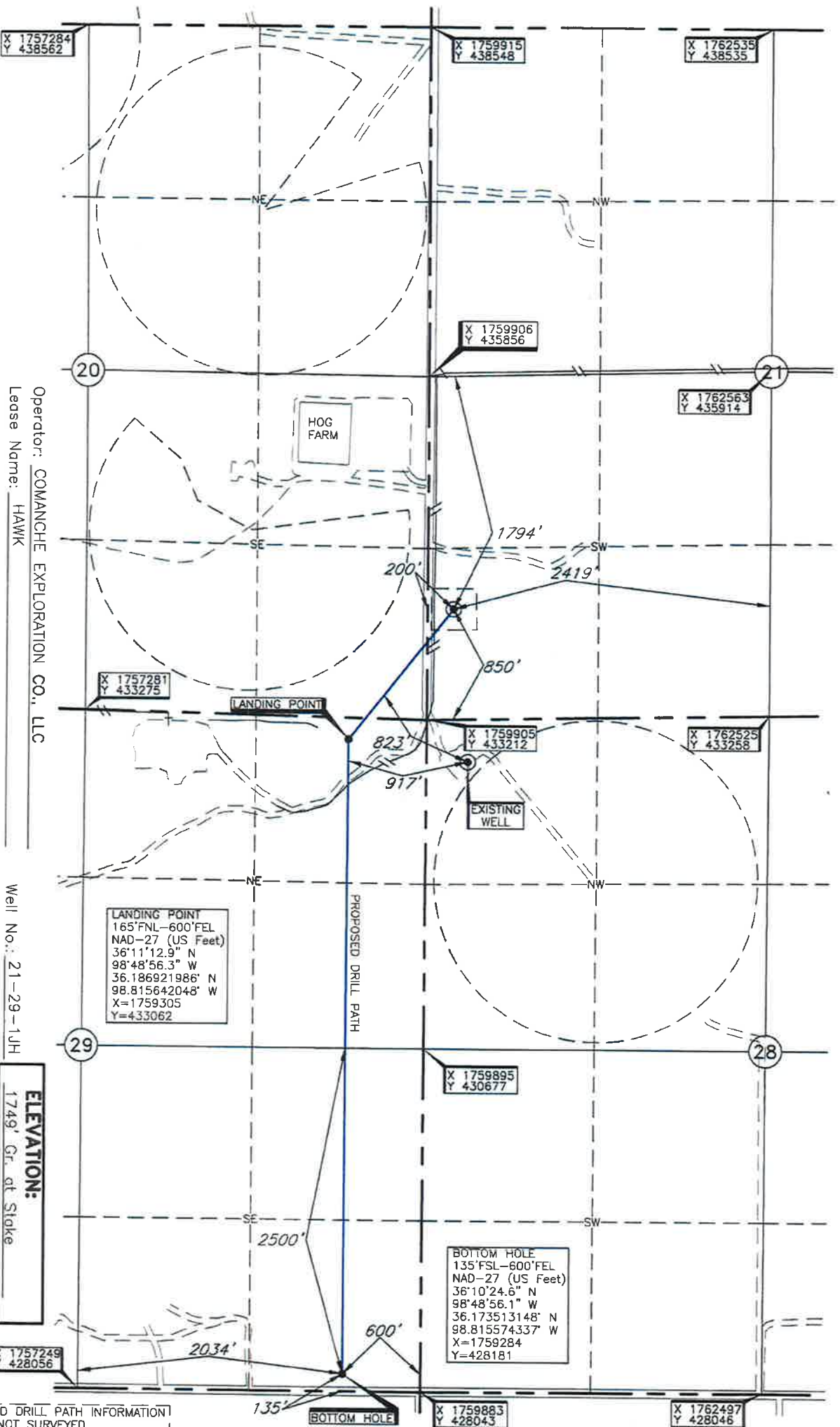
Operator: COMANCHE EXPLORATION CO., LLC
Lease Name: HAWK

Well No.: 21-29-1JH

ELEVATION:

1749' Gr. at Stake

Topography & Vegetation Loc. fell in heavy brush, $\pm 150'$ East of N-S SMD pipeline



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

Date of Drawing: Nov. 07, 2018

Invoice # 304003 Date Staked: Oct. 16, 2018

AC

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



DATUM: NAD-27
LAT: 36°11'22.9\"N
LONG: 98°48'46.6\"W
LAT: 36.189699751° N
LONG: 98.812956417° W
STATE PLANE
COORDINATES: (US Feet)
ZONE: OK NORTH
X: 1760106
Y: 434066

This information was gathered with a GPS receiver with a foot 1 ft accuracy.