

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

API NUMBER: 093 25154

Approval Date: 08/10/2018
Expiration Date: 02/10/2019

Horizontal Hole Oil & Gas

PERMIT TO DRILL

WELL LOCATION: Sec: 29 Twp: 20N Rge: 15W County: MAJOR
SPOT LOCATION: NE NE NW NE FEET FROM QUARTER: FROM NORTH FROM EAST
SECTION LINES: 250 1350

Lease Name: **ALTIC** Well No: **29-20-1H** Well will be **250** 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
6520 N. WESTERN AVE., SUITE 300
OKLAHOMA CITY, OK 73116

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

Name	Depth	Name	Depth
1	MERAMEC	9550	6
2			7
3			8
4			9
5			10

Spacing Orders: 132765

Location Exception Orders:

Increased Density Orders:

Pending CD Numbers: 201805614
201805612

Special Orders:

Total Depth: 14553

Ground Elevation: 1721

Surface Casing: 800

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: 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

D. One time land application -- (REQUIRES PERMIT) PERMIT NO: 18-34957
H. SEE MEMO

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.

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

HORIZONTAL HOLE 1

Sec 20 Twp 20N Rge 15W County MAJOR

Spot Location of End Point: N2 N2 NE NE

Feet From: NORTH 1/4 Section Line: 135

Feet From: EAST 1/4 Section Line: 660

Depth of Deviation: 8866

Radius of Turn: 477

Direction: 10

Total Length: 4938

Measured Total Depth: 14553

True Vertical Depth: 9600

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

Notes:

Category

Description

DEEP SURFACE CASING

7/19/2018 - 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

7/19/2018 - 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

INTERMEDIATE CASING

7/19/2018 - 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

MEMO

7/19/2018 - G71 - PITS 1 & 2 - CLOSED SYSTEM=STEEL PITS PER OPERATOR REQUEST, PIT 2 - OBM RETURNED TO VENDOR, CUTTINGS PERMITTED PER DISTRICT

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

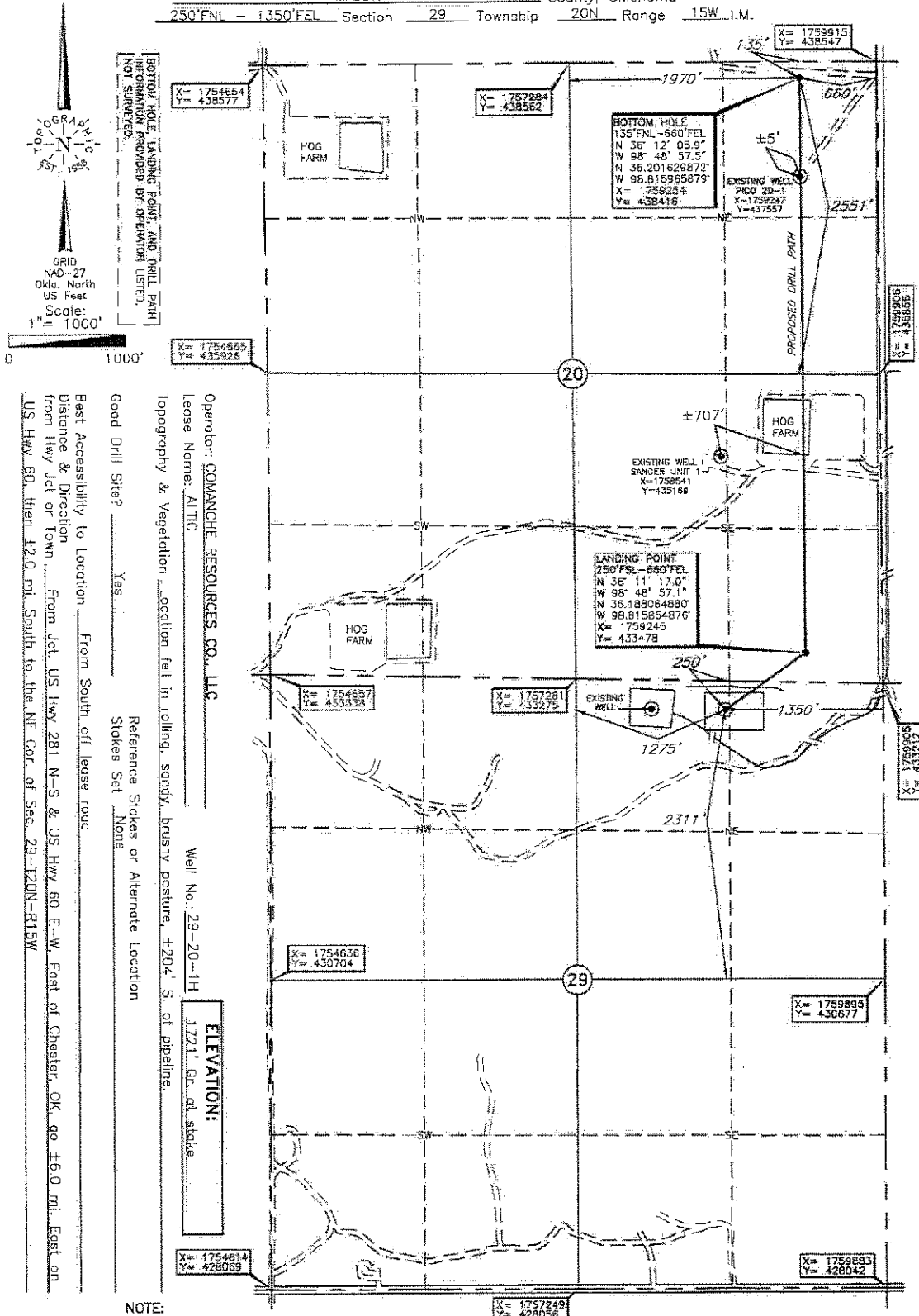
The duration of this permit is SIX MONTHS, except as otherwise provided by Rule 165: 10-3-1.

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
PENDING CD - 201805612	7/26/2018 - G58 - 20-20N-15W X132765 MRMC XOTHERS 1 WELL NO OP. NAMED REC 8/7/2018 (DENTON)
PENDING CD - 201805614	7/26/2018 - G58 - (I.O.) 20-20N-15W X132765 MRMC XOTHERS X165:10-3-28(C)(2)(B) MAY BE CLOSER THAN 600' TO PICO 20-1 WELL X165:10-3-28(C)(2)(B) MAY BE CLOSER THAN 600' TO SANDER UNIT 1 WELL X165:10-3-28(C)(2)(B) MAY BE CLOSER THAN 600' TO SANDER 2-20 WELL COMPL. INT. NCT 165' FSL, NCT 165' FNL, NCT 560' FEL NO OP. NAMED REC 8/7/2018 (DENTON)
SPACING - 132765	7/26/2018 - G58 - (640) 20-20N-15W EXT OTHERS EXT 128899 MRMC, OTHERS

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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.

MAJOR County, Oklahoma
 250' FNL - 1350' FEL Section 29 Township 20N Range 15W 1.M.



Operator: COMANCHE RESOURCES CO., LLC
 Lease Name: ALTC
 Topography & Vegetation: Location fall in rolling, sandy, brushy pasture, ±204' S. of pipeline.
 Good Drill Site? Yes
 Reference Stakes or Alternate Location: Stakes Set None
 Well No.: 29-20-1H
 ELEVATION: 1721' Gr. at stake
 Best Accessibility to Location: From South of lease road
 Distance & Direction from Hwy Jct or Town: From Jct US Hwy 281 N-S & US Hwy 60 E-W, East of Chester, OK, go ±6.0 mi. East on US Hwy 60, then ±2.0 mi. South to the NE Cor. of Sec. 28-120N-R15W

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

DATUM: NAD-27
 LAT: 36°11'12.2"N
 LONG: 98°49'05.5"W
 LAT: 36.186720511° N
 LONG: 98.818182182° W
 STATE PLANE
 COORDINATES: (US Feet)
 ZONE: OK NORTH
 X: 1758555
 Y: 432995

Revision A Date of Drawing: Mar. 05, 2018
 Invoice # 274883 Date Staked: April 25, 2017 JP

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

