

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

API NUMBER: 093 25087

Approval Date: 08/14/2017
Expiration Date: 02/14/2018

Horizontal Hole Oil & Gas

PERMIT TO DRILL

WELL LOCATION: Sec: 14 Twp: 20N Rge: 15W County: MAJOR
SPOT LOCATION: SE SW SW SE FEET FROM QUARTER: FROM SOUTH FROM EAST
SECTION LINES: 235 2035

Lease Name: JOYCE Well No: 14-1H Well will be 235 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

GLENDA JOYCE SUENRAM
236777 E. COUNTY RD 58
CHESTER OK 73838

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

Name	Depth	Name	Depth
1 MISS'AN LM	8400	6	
2		7	
3		8	
4		9	
5		10	

Spacing Orders: 141045

Location Exception Orders:

Increased Density Orders:

Pending CD Numbers: 201705196
201705195

Special Orders:

Total Depth: 13610

Ground Elevation: 1767

Surface Casing: 450

Depth to base of Treatable Water-Bearing FM: 400

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: 17-32985
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 14 Twp 20N Rge 15W County MAJOR

Spot Location of End Point: NE NW NW NE

Feet From: SOUTH 1/4 Section Line: 135

Feet From: EAST 1/4 Section Line: 2035

Depth of Deviation: 7776

Radius of Turn: 600

Direction: 360

Total Length: 4891

Measured Total Depth: 13610

True Vertical Depth: 8880

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

Notes:

Category

Description

HYDRAULIC FRACTURING

8/8/2017 - G58 - 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: [HTTP://WWW.OCCWEB.COM/OG/OGFORMS.HTML](http://www.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 [HTTP://FRACFOCUS.ORG/](http://fracfocus.org/)

INTERMEDIATE CASING

8/8/2017 - G58 - 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

PENDING CD - 201705195

8/10/2017 - G60 - (E.O.) 14-20N-15W
X141045 MSSP **
1 WELL
COMANCHE EXPLORATION CO. LLC.
REC. 8/11/17 (THOMAS)

**WILL BE CORRECTED TO MPLM AT HEARING PER ATTORNEY FOR OPERATOR

PENDING CD - 201705196

8/10/2017 - G60 - (E.O.) 14-20N-15W
X141045 MSSP **
POE TO BHL NCT 165' FSL, NCT 165' FNL, NCT 330' FEL
COMANCHE EXPLORATION CO. LLC.
REC. 8/11/17 (THOMAS)

**WILL BE CORRECTED TO MPLM AT HEARING PER ATTORNEY FOR OPERATOR

SPACING - 141045

8/10/2017 - G60 - (640) 14-20N-15W
EXT 125423 MPLM
EXT OTHER

3509325087

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

API NUMBER: 000 00000

Approval Date:
Expiration Date:

Horizontal Hole

PERMIT TO DRILL

WELL LOCATION: Sec: 14 Twp: 20N Rge: 15W County: MAJOR
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SECTION LINES: 235 2035

Application for Intent to Drill

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2			7	
3			8	
4			9	
5			10	

Spacing Orders: 141045 Location Exception Orders: Increased Density Orders:

Pending CD Numbers: 201705196 *E.O. hearing 8/11/17 L.E.* Special Orders:
201705195 *E.O. hearing 8/11/17 I.D.*

Total Depth: 13610 Ground Elevation: 1767 Surface Casing: *450* Depth to base of Treatable Water-Bearing FM: 400

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: 17-32985
H. SOIL FARMING

**TEMPORARY AUTHORIZATION
TO DRILL**
Expiration Date: *8/17/17*
Signature: *[Handwritten Signature]*
165:10 -1

*Pit 1: closed system = steel pits per operator request
water based - closed - max chlorides
8000, average 5000*

This permit does not address the right of entry or settlement of surface damages.
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Sec 14 Twp 20N Rge 3W County MAJOR

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Depth of Deviation: 7776

Radius of Turn: 600

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Total Length: 4891

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True Vertical Depth: 8880

End Point Location from Lease,

Unit, or Property Line: 135

Application for Intent to Drill

Intermediate casing - Due to unknown potential risk of encountering an over-pressured zone in the narrow series in this area, the technical manager recommends setting an intermediate string of casing immediately above the narrow series

3509325087

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

235'FSL - 2035'FEL Section 14 Township 20N Range 15W I.M.

X= 1770428
Y= 443784

X= 1773053
Y= 443771

X= 1775677
Y= 443758

BOTTOM HOLE
135'FNL-2035'FEL
NAD-27 (US Feet)
36°12'58.6"N
98°46'02.4"W
36.216282985°N
98.767343617°W
X= 1773642
Y= 443633

X= 1770409
Y= 441153

X= 1775663
Y= 441122

X= 1770390
Y= 438523

X= 1773019
Y= 438509

LANDING POINT
450'FSL-2035'FEL
NAD-27 (US Feet)
36°12'12.4"N
98°46'02.3"W
36.203435311°N
98.767304601°W
X= 1773616
Y= 438956

X= 1775649
Y= 438496

NOTE:
The information shown herein is for
construction purposes ONLY



GRID
NAD-27
OK NORTH
US Feet
Scale:
1" = 1000'

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

Operator: COMANCHE EXPLORATION CO., LLC

Lease Name: JOYCE 14

Well No.: 1H

ELEVATION:

1767' Gr. at Stake

Topography & Vegetation Loc. fell in sandy wheat field with brush, ±195' North of pipeline

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 Chester, OK, go ±9.0 mi. East on US Hwy. 60, then ±1.0 mi. South to
the SE Cor. of Sec. 14-T20N-R15W

Revision A Date of Drawing: Aug. 02, 2017
Invoice # 269785A Date Staked: Mar. 03, 2017 AC/TR

DATUM: NAD-27
LAT: 36°12'10.2"N
LONG: 98°46'02.3"W
LAT: 36.202845340° N
LONG: 98.767302327° W
STATE PLANE
COORDINATES: (US Feet)
ZONE: OK NORTH
X: 1773615
Y: 438742

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

